

RECORD

10198-46102
36
22



Collection and Field Note Book

No. 17

(Aug. 6, 1946 - Aug. 24, 1946)

(26154 - 26789)

CAROLINE ISLANDS

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MARSHALL ISLANDS

* * *

*Descriptive passages
serographed for files 1974
B Decker*

1st P. sp. =

Pandanus carolinianus

nd. *Pand. odoratissimus* var. *novoguineensis*
(Mitt.) Mitt.

Digitaria microbachne (Taylor 1096)

Aplismenus = *Thuarea* (Kwaj.)
no sp. from Majuro.

Letaria sp. = *verticillata*

Fimbristylis annua = *cymosa*

Achyranthes canescens (Taylor 1166)

Portulaca quadrifida = *samoensis* V. B.

Canavalia microcarpa - doubtful

Dolichos lablab = *Phaseolus lunatus*?

Allophyllus timorensis (not *terratus*)

Dodonaea viscosa (Taylor 1072, 1095, 1138)

~~*Palcyrtis*~~
~~*Notthopanax*~~ *scutellaria* (not *guelpoyleri*)
notthopanax (one leaflet?)

B

Terminalia litoralis Leem.
not catappa

12th P. sp. =

Pandanus carolinianus

nd. *Pand. odoratissimus* var. *novoguineensis*
(Mait.) Mait.

Digitaria microbachne (Taylor 1096)

Opplismenus = *Thuarea* (Kwaj.)
no. sp. from Majuro.

Setaria sp. = *verticillata*

Fimbristylis annua = *cymosa*

Achyranthes canescens (Taylor 1100)

Portulaca quadrifida = *samoensis* V. V.

Canavalia microcarpa - doubtful

Dolichos lablab = *Phaseolus lunatus*?

Allophylus timorensis (not *ternatus*)

Dodonaea viscosa (Taylor 1072, 1095, 1138)

~~*Polypodium*~~
~~*Polypodium*~~ *scutellaria* (not *guelpoylei*)
nothopanax (one leaflet?)

F. R. Fosberg
Collection Book
17
beginning # 26154
ending # 26789



Miniature
Account Book
No. S 136

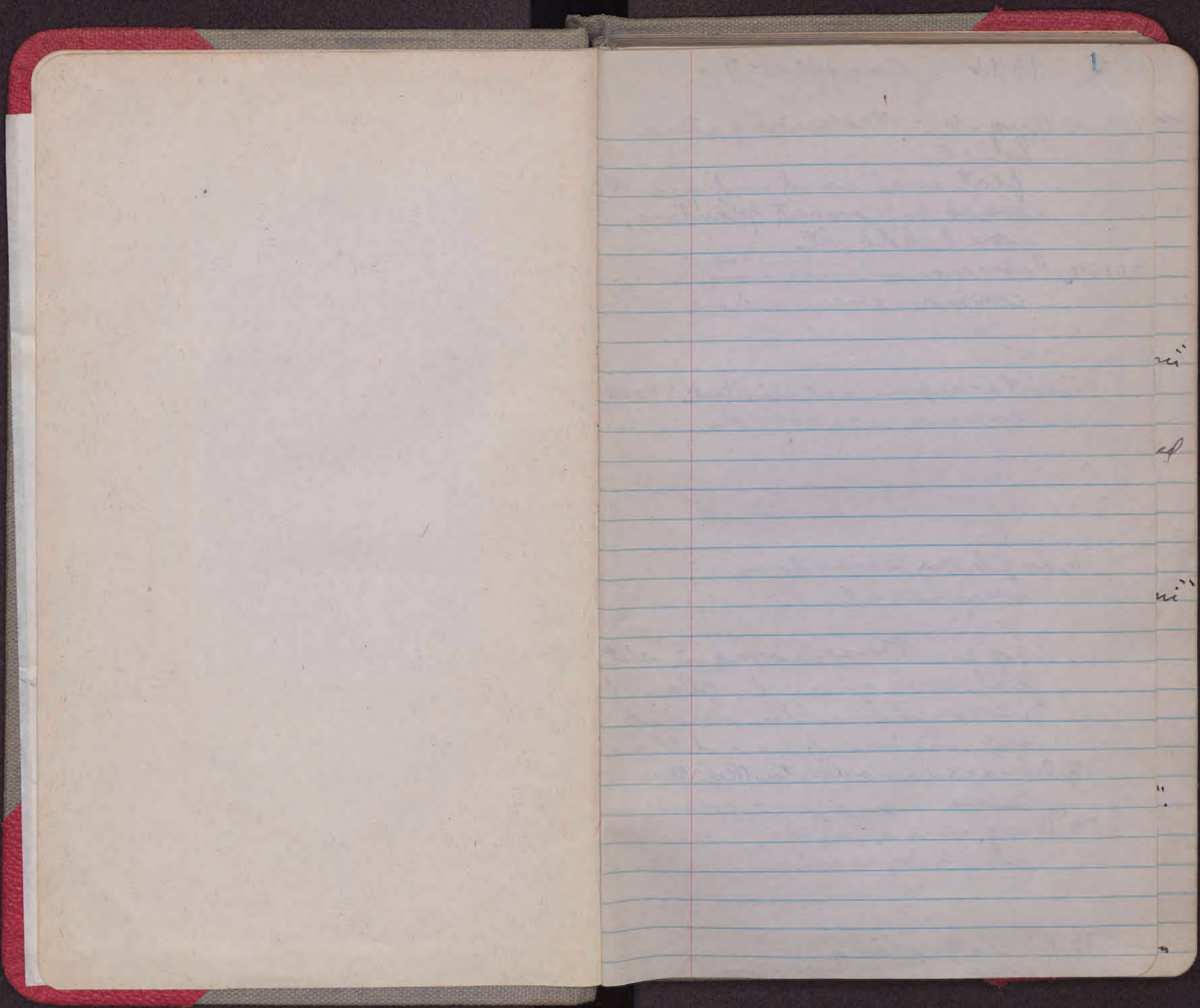
UNIT RULED

Journal
Cash Book
Record (29 Lines) .
Ledger, Double Entry
Ledger, Single Entry

Made in 200 and 300 Pages

Made in U.S.A.

TO REORDER, SPECIFY NUMBER,
RULING AND THICKNESS INDICATED
ON BACKBONE OF THIS BOOK.



Aug. 6 - Mohiringatua Islet

flat coral sand and gravel, covered by Coconut planting, some breadfruit.

26154, *Premna* ^{*obtusifolia* R. Br.} ~~*integerrima*~~
common everywhere

55, *Artocarpus altalis* (Park.) Forst.
common in woods

56, *Lophora tomentosa*
very local

Aug. 6 - Masakomani Islet
flat coral gravel, planted to coconuts, with moist depressions here and there

57, *Ochrasa odorata* (Ref.) Merr.
~~seen~~ rare, one seen.

58, *Bruguiera conjugata*
rare in depressions

59, *Ficus prolixa*
rare, in shade.

tree 5 m. tall, (others up to 10 m.); flowers green, aromatic; fruit black when ripe. "vanavani"

tree 10 m. tall, others seen 30 m. tall and 3-4 m. Through buttressed trunks. Fruit eaten.

Wood used for many purposes. "kuru"

slender tree 7 m. tall, flowers yellow. "hakapini"

small tree 4 m. tall, sterile, leaves leathery. "voi".

small tree 4 m. tall, calyx and hypanthium bright yellowish red, "tonga".

small banian, this specimen with young leaves, sterile. "ava"

24160. ~~Allophylus~~ *Allophylus timorensis*
rare, in shade

61. *Tacca leontopodioides* ^{et al.}
rare here, very common
on other islets, growing
in shade, also seen
to very edge of beach.

62. *Soulamea amara*
common locally near outer
beach

23

Aug. 6 Linukutai Islet
planted to coconuts, little
undergrowth

63. *Pteris*
occasional in woods

64. *Polypodium scolopendria*
very common, on ground and
on ~~the~~ trunks of trees
this on log in deep forest.

65. *Asplenium nidus*
common on ground and
occasional on tree trunks

66. *Vittaria*
occasional on tree trunks

67. *Pisonia grandis*
occasional to rare in forest

small tree 4 m. tall,
branches drooping; flowers
whitish, scarce. "tarahani"
erect herb; "pie"
tuber eaten.

small tree 4-5 m. tall,
branches erect, flowers
whitish. "hakapini."

short erect rhizome
"manumangamanga"
rhizome creeping,
fronds erect "maire"
(without maile odo)

rosette of ascending
fronds. "kankataha"

fronds pendent

slender tree 3 m. tall,
sterile "puka".

26163. *Hibiscus tiliaceus*

common in forest

69. *Cyrtosperma chamissonis* ^{Merkusii (Hassk.) Schott} ^{det. D.H. Nicolson} ^{6/1998}
cultivated in muck-filled excavations, small area here, great area on Nukunoro Islet.

70. *Pipturus argenteus*
common in forest

71. *Clerodendron inerme*
occasional

72. *Nephrolepis*
common almost everywhere

73. *Morinda citrifolia*
common everywhere

74. *Barringtonia asiatica*
a few seedlings here on upper edge of outer beach, trees seen in village on Nukunoro Islet.

75. *Calophyllum inophyllum*
common, especially along outer beach

slender, twisted tree
10 m. tall, sterile, "koeban".
acaulescent, leaves up to 3 m. tall, ~~sterile~~ very slightly prickly

"tan kini" or "puraka"

staple food for inhabitants.

shrub 3 m. tall (others larger), ripe fruit white, fleshy "oronga"

extensive sprawling shrub; flowers white, buds purplish tipped, stamens and style maroon-purple

"manumara".

rhizome short, erect, stoloniferous, fronds erect. "luhe"

this plant young, a shrub 1.5 m. tall, others trees up to 12 m. tall. "pukaria" seedlings "kavansu"

tree 10 m. tall, sterile "hetan"

26176. *Polypodium scolopendrium*
on log in open at top of beach

77. *Pemphis acidula*
large thicket on outer beach,
seen also on passage beach.

78. *Guettarda speciosa*
common, especially along
outer beach

79. *Scaevola frutescens*
fringing outer beach

80. *Crinum*
planted around small cemetery

81. *Hernandia ovigera*
common along beaches

82. *Messerschmidia argentea*
common along beaches

rhizome prostrate, creeping,
fronds erect. "maire"
(without mail odor)

tree 7 m. tall; flowers
white. "ngie".

tree 6 m. tall, flowers
white "pua"

bush 1 m. tall, others
seen up to 3 m., flowers
white "mann kaparang"
rosette of ^{green} leaves 1 m. long,
peduncle up to 1.5 m.,
maroon, flowers
red-purple without,
pinkish within,
stamens and style maroon-
purple, ~~leaves~~ "kiep"

large rounded tree,
leaves somewhat fleshy,
glossy above; fruiting
perigone white, fleshy,
inflated, opening round,
plugged by end of fruit.

"pingiping"

tree 5 m. tall; leaves
fleshy, silvery green;
flowers white "manubiriman"

stem
3 dm.
tall

26133. *Lepturus repens* ←

Aug. 6 Nukunoro (Matakana)
Islet

Planted to coconuts,
lagoon side occupied
by village, center by
great *Cyrtosperma* patches,
outer side by thickets

84. *Triumfetta procumbens*
common near outer beach

85. *Musa ^{paradisica} ~~capitata~~*
occasional, both on
dry land and in muck
of *Cyrtosperma* patches

86. *Hedychium coronarium*
planted, both on dry
land and in muck.

87. *Vitex* ^{probably}
~~rare~~ planted, around
depressions

88. *Alocasia macrorrhiza*
fairly common, probably
planted, on dry land

89. *Bryophyllum calycinum*
rare, ~~climbs~~ small patches

dominant in grassy
areas in open and thin woods.
tufts sending out
runners at base "heri"

prostrate with ascending
branches, flowers yellow
"huatoro"

plant 3 m. tall "abuki"

herb 0.7 m. tall. "sinsia"

slender bushy tree, ^{5 m. tall,}
flowers purple, fruit green
"tasik"

leaves up to 2 m. tall.
"ngan ngan"

erect, fleshy, sterile

locally

26190. *Lida cordifolia fallax* Walp.
rare, in cemetery, probably
planted

91. *Codiaeum variegatum*
rare, planted in cemetery

92. *Cycas circinalis*
rare, planted

93. *Adenanthera pavonina*
rare, probably planted,
in wet depression

94. *Bauhinia*
planted in courtyard, one seen.

95. *Hibiscus* (^{double} mutant, probably
of *H. rosa-sinensis*)

96. *Ocimum sanctum* ^{*Ocimum sanctum* is}
rare, planted

97. *Acrostichum aureum*
rare, no plant seen
in wet depression with
a single mangrove,
in edge of village

98. *Plumeria acutifolia* Aublet
cultivated in village

sterile seedling
"Kean"

shrub 1 m. tall, leaves
red and green; sterile.
"puratong" (several
other forms seen)

Trunk 2 m. tall

"manuatapapo"
tree very chlorotic
and unhealthy looking

small tree 4 m. tall,
very chlorotic and
unhealthy looking, sterile.
"temanumoi"

shrub 3 m. tall,
flowers red. "ioz"
very aromatic herb;
flowers whitish. "aroaki".
large clump

shrub 2 m. tall, very
lactiferous, flowers
white and yellow.

26199. *Polyscias fruticosa*
planted as hedge around
cemetery

26200. *Nerium* ~~leander~~ ^{indicum Mill.}
occasional, cultivated

01. *Hymenocallis littoralis*
commonly planted

02. *Graptophyllum pictum*
~~was~~ planted in dooryard

03. *Fagraea berteriana* var. *sepi* (G. & B.) Fock.
planted in dooryard, rare

04. *Ixora carolinensis* Hos. casei Hamce
planted in dooryard

05. *Polyscias scutellaria*
planted in dooryard

06. *Terminalia catappa* L.
edge of village

07. *Crinum*
planted in dooryard

08. *Asclepias curassavica*
planted around graves

bush 1 m. tall, branches
erect. "mandauriki"
in

shrub 1 m. tall, others
taller, all seen sterile.
all seen sterile

leaves green, variegated
with large irregular
white center patch,
flowers purple.

small tree, buds only
"pua"

shrub 4 m. tall,
flowers orange red to
scarlet on same bush,
leaves very chlorotic.

"katio"

sterile shrub 7 m. tall

one unhealthy looking
tree seen, sterile "puarakau".

rosette of long leaves,
peduncle green, 1 m. tall
flowers white with
purple stamens & style

erect herb, 1 m. tall,
flowers with corolla red,
corona orange.

26209. *Colocasia esculenta*
planted on dry ground
(also seen in muck)
10. *Zephyranthes rosea*
planted in door yards
11. *Saccharum officinarum*
planted in dooryard
(also planted in quantity
in muck in *Cyrtosperma*
patches)
12. *Capricorn frutescens*
planted in dooryard
13. *Thespesia populnea*
occasional around
Cyrtosperma patches
14. *Citrus aurantiifolia*
one tree seen, planted in village
15. *Ceiba pentandra*
~~sprouts~~ one fallen tree seen
in village
16. *Pseuderanthemum eldorado*
17. ~~Thuidium~~ *Ectopothecium appaids*
on ground under coconut trees
18. *Leucophan glauculum*
on bases of coconut trees
abundant

- acaulescent, leaves
dull, plant sterile.
"taro", leaves "ran taro"
corn eater
- caespitose, flowers rose pink.
sterile grass 2 m.
tall. "taro"
- shrub 1 m. tall,
fls. greenish white,
fruit scarlet.
- tree 8 m. tall "miso".
- tree 4 m. tall, sterile
- sprouts from fallen
tree trunk.
- shrub 3 m. tall, leaves
green, flowers white
with red-purple
spots near throat
forming a carpet
- cushions, light green

26219. *Trichomanes minutum*
 rare, ^{seen} ~~in~~ ^{trunk} of one tree only
20. *Pandanus tectorius* var.
 common, especially toward
~~near~~ outer beach

what seems to be random variation in leaf length, thickness of stem, size of fruiting head. I could see no distinction into definite varieties but the boys with me had no hesitation in calling this specimen "hara motumotu" which was confirmed by various bystanders.

Time was not available to go from tree to tree with informants and find out about them.

tree 5 m. tall, others taller
 fruit not mature.

"tehara" tree; "rauhara"
 leaves. "hui hara" fruit;
 "laho hara" roots.

fruit eaten, leaves
 woven into mats, etc.
 said to be 7 kinds, one
 of which, "hara singano"
 is the staminate tree.
 The other 6 are

"hara mai songa"

"hara motumotu"

"hara taki"

"hara adeo"

"hara vari" The last
 has fruits that are rather
 poor for eating and are
 only eaten in time of
 famine. "hara singano"
 is said to be best for
 matting, but this
 is doubtless not true,
 as it is the male for
 all kinds.

← Examination of
 many trees shows

2221. *Coleus scutellaroides* (L.) Benth.
fair sized patch in
rather open part of
coconut planting
probably established after
cultivation

22. *Coleus scutellaroides* (L.) Benth.
with #26221

23. *Coleus scutellaroides* (L.) Benth.
with #26221

24. *Gynedrella nodiflora*
small patch near trail

25. *Ochrosia oppositifolia*
single tree seen in woods

26. *Carica papaya*
rare in woods

leaves green, flowers
blue-violet, plant
spicy-aromatic.
This form has become
well established.
It has apparently reverted
to colored forms in
2 cases (the following
2 numbers) where ~~single~~
plants occurred in
the patch with colored leaves,
sterile plant. (with #26221)
with leaves bronze
purple above, with
green margin and under
side. sterile.

sterile plant, 2 shoots
connected by stolon;
leaves deep maroon-
purple on both sides.
flowers yellow.

tree 10 m tall, lactiferous.
fruits in pairs (old
ones picked up on
ground)

single stem 3 m tall,
flowers cream-white
"mami"

26228. ~~Aptenia~~ *Athyrium*

very local in woods

29. *Oplismenus* ^{*compensoides*} ~~*hystellus*~~
common locally

30. *Inocarpus fagiferus* (Park.) Forb.
rare, only very few trees
seen in woods, possibly planted

31. *Cyperus* ~~*stuppeus*~~ *javanicus*
one small patch seen
in low wet place

32. *Paspalum conjugatum*
common locally

33. *Polyscias*
planted, rare.

34. *Pandanus fragrans*
occasional in forest

35. *Ipomoea* ^{*tuba*} ~~*alba*~~
uncommon, toward outer
beach

36. *Coelococcus amicusum*
one tree seen behind village

rhizome short, erect
"luhe"

forming a thin
carpet on ground,
leaves wavy.

"heri rau riki"

tree 3 m. tall, sterile, but
old seeds on ground
mostly germinated

"maropi" "marup": seeds eaten.

caespitose, leaves gray
"heri pata"

rooting at nodes,
scapes erect. "heri" (evidently
a general name for grass)

shrub 2 m. tall

"manurau riki"

tree 12 m. tall, ^{staple} fruit
on ground, not certain
which of several identical
trees they are from.

"paku" seed eaten.
sterile vine

"hue"

tree 12-15 m. tall
specimen from dead leaves
and fruit beneath.

27. *Erythrina*
one tree seen in woods
behind village

38. *Pandanus*

same as next All of the islets of Nukunoro are well planted to coconuts. Breadfruit trees are scattered through the coconut forest and many of them tower above the coconuts, perhaps even to 30 or 35 m. Their buttressed trunks are as much as 3-4 m. through near the base. So far as could be ascertained there are no open sandy or gravelly places above tide level. The outer beaches are lined with *Messerschmidia*, *Hernandia*, *Guetarda*, *Pandanus*, and locally, *Pemphis*. Outside

Islets of Nukuoro Atoll
(south to north)

Mokerekere
Itaha
Oromang (Oromange)
Teahua (Deahna)
Mokerekereioto (Motu Iloto) (Motsuiroto) *ile.*
Kaushima (Kaujima) (Kauzema)
--Nukuoro Passage--
Sinukutai (Shenukdei) (Suchienukudei)
Mohiringatua *cene*
Masakomani
Nukuoro or Matakana (Nugoro)
Takamanga (Takonran) *gano*
Lati
Temotu *white with*
Haisisi *boat shaped.*
Pa'kau
Sungaauroho (Shugnaurohu)
Tuila (Tsuiro)
Hatukanai *fringe of leaves.*
Paraiashi
Motuoveka
Paunga
Ahuroaroa *midia,*
Motutuka
Ahuetoru
Motuovai (Motu Wei) *lia,*
Teahu three with same name *tonia.*
Teahu
Sapini (Sapinimotok) (Motsuito) *P*
Motupoatai ~~(Motu Ituo)~~ *t*
Motuitua (Motu Ituo) *Ben*
Ahuiroto
Tahangaroa (Tahangoro)
Tahangatapu (Tahangatabu) *na).*
Ahurekareka
Masakuman
Niurikita
Ahuraanui (Arukanui) *Tug,*
Torungahari *the*
Tarakaivau *with*
Motuia
Motunui (Motonui) *er-*
Namuirotoa
Hawoshika
Kapinivere
Tavainamu
Teungakerekere (Tonga Kerikeri)

Islands of Nukunoro Atoll
(south to north)

26237

Mokerebete
Itaka
Gromang (Gromang)
Tashu (Tashu)
Mokerebete (Mokerebete)
Kamama (Kamama)
Kamama (Kamama)
Kamama (Kamama)

38

Simukutai (Simukutai)
Mokerebete
Masakomani
Nukunoro or Matakana (Nukunoro)
Takamanga (Takamanga)

Isai
Temoji
Haisai
Fakau

Supanaroko (Supanaroko)
Talia (Talia)

Natural
Paralana

Mokerebete

Lana

Amakoro

Mokerebete

Mokerebete (Mokerebete)

Tashu

Tashu

East (Gepinoko) (Mokerebete)

Mokerebete (Mokerebete)

Mokerebete (Mokerebete)

Mokerebete (Mokerebete)

Mokerebete (Mokerebete)

Mokerebete (Mokerebete)

Mokerebete (Mokerebete)

Mokerebete (Mokerebete)

Mokerebete (Mokerebete)

Mokerebete (Mokerebete)

Mokerebete (Mokerebete)

Mokerebete (Mokerebete)

tree 20 m. tall,
leaves chlorotic,
specimen from shaded
lowest twig, sterile.
"mutavaki"

staminate inflorescence
brought in by boy
to illustrate "hara singano"
bracts white with
greentips, boat shaped.

this is a fringe of beach. The inner beaches
have some Messerschmidia,
Quettarda, occasional
Calophyllum, Hernandia,
Pandanus and Barringtonia.
The interior of
only 5 islets was at
all examined. Horaka
visited Kaushima (Kaujema).
I covered fairly well
Simukutai, Mohiringatua,
Masakomani and ^{the} south
half of Nukunoro (Matakana).

There is little under-
growth on any of these,
possibly because of
clearing. Where the tree

cover is thin *Lepturus*
 repens covers the ground.
 In denser places either
 weeds are common, as
 on Nukunono, or *Oplismenus*
 (also on Nukunono), or the
 ground is either bare,
 sometimes mossy, or
 ferns form a thin cover.
~~The~~ Trees growing under
 the coconuts are *Premna*,
Morinda, *Pandanus*,
Hibiscus tiliaceus, with
 a few others more rare.

Depressions here and
 there have a ~~or~~ *Bruguiera*
 or two, and in one, a
 clump of *Acrostichum*
ascreum.

In artificial depressions
Cyrtosperma is
 raised, along with
 some *Colocasia* and
 with ~~some~~ *Saccharum*.
 One of these patches,
 on Nukunono Islet back
 of the village is many
 acres in extent. They
 are excavated, the earth

piled along side.
 Coconut husks and
 other organic matter
 is thrown in and
 rotted until a muck
 is formed. All
 waste vegetable
 matter is saved for
 these. The water level
 is slightly affected
 by the tides.

words:

kales - chicken

rapoto - white eel

karapi - black sea cucumber

nui - coconut tree

huame - full grown
coconut (drinking)

matu - ripe coconut

lau nui - coconut leaves

Colonia
 Aug. 8 - ~~Colonia~~ Ponape
 specimens gathered locally
~~to illustrate identity~~
 by natives to identify
~~Bascom's~~ Bascom's native
 names.

26239 *Ipomoea*

~~40~~

40 *Ficus tinctoria*

41 *Caesalpinia pulcherrima*
 (L.) Sw.

42

Melastoma

43 *Terminalia catappa*

44 *Morinda citrifolia*

45 *Pandanus*

roots used for fiber for skirts

46 ~~*Ipomoea gracilis*~~

46 *Pandanus*

"oimip" (Bascom 42A) tips eaten

"niim" (Bascom 45) fruit eaten

"seimutha" (Bascom 40)
 beans eaten

~~"kIsEtIkImai"~~ (Bascom 44)
 fruit eaten

"thipwOpw" (Bascom 47)
 nut eaten

"we:ipwul" (Bascom 28)
 fruit eaten

"kIpar" (Bascom 25)

(says this tree
 was brought from
 Nukunro and is the
 hara motumotu of
 Nukunro. Fruits
 said to be excellent
 to eat.

"kIpar anai"
 var.

"Klpar" variety "KIpar En wal"
 said to be native in Ponape,
 but to correspond with the
 "hara van" of Nukunro; fruits
 not very good, seldom eaten.

Key to Bascom's system of
phonetic writing

a: = long a

a = medium a

ȧ = very short a

x = u in but

E = e in bet

I = i in hit

O = o in German Gott

a, e, i, o, u have continental values.

- Aug. 3 Colonia, Nöt, Ponape
 26247 *Sporaea gracilis*
 along pier at water's edge

Aug. 3 Paliker, Ponape

disease on *Citrus aurantiifolia*
 coll. by Richard Oakley

Aug. 3 Nanipil, lower
 part of Tawenjokola River,
 Nöt, Ponape
 lower slopes just above
 river, thickets of
 principally *Hibiscus*
tiliaceus with open
 places filled with *Ischaemum*.

48 *Fimbristylis*
 in road

49 *Ischaemum*
 dominant grass in
 open places, very abundant

50 *Pipturus*
 in ~~moist~~ thickets

51 *Pipturus*
 in moist thickets

vine, flowers purple,
 deeper in center.
 "omp" or "emp" (Nöt).

small tufts.

forming a mat up to
 0.7 m. deep.

shrub 1.5 m. tall,
 stems and petioles red,
 leaves bullate above,
 venulose below. "karari"
 vine climbing in trees,
 leaves more or less smooth

26252 *Jussiaea*
open place

53 *Typhonium* ~~*anthozoma*~~
open place

Saccharum spontaneum L.
54 ~~*Misacanthus*~~
common in lowlands

Aug. 3 Colonia, Mot, Ponape
55 *Cynometra*
~~lowland~~ lowland thickets
near river

herb 1.5 m. tall, flowers
yellow, petals fugaceous
"Deleura" ~~"Deleura"~~

Sterile; leaves dull
above, very glaucous
beneath, petiole at an
angle with blade;
"sana" said to have
brought from Hawaii by
Japanese and also called
Hawaiian taro.

(Bascom T115) Large clumps,
canes up to ~~4~~ 4 m. tall,
flowering canes had
already lost leaf
blades, leafy canes
sterile "alek" or "allek"
fruiting or flowering stalk
called "liatin allek".

tree 8 m. tall
"Kamman" (Bascom T12)
wood not used for lumber
but branches used for
handles, etc.

July 3 Nit District
Ponape, lower valley
of Tovenjokola River.
Flat bottom of
river valley has
secondary forest patches
and thickets, principally
of *Hibiscus tiliaceus*,
which runs well
up the slopes at the
sides. These alternate
with open grassy
patches of *Ischaemum*,
forming a thick mat
in places 1 m. deep.
Small patches of
Miscanthus sp.

occur commonly, as
well as patches of a
reed (). *Pennisetum*
purpureum is occasional.

Scattered tall trees
are here and there,
evidently remnants
of the original forest.

Most look ~~to~~ like
Sonneratia, but were
not examined.

canthiophora

On the upper slopes
the original forest
more and more
persists, the higher
one goes.

Around the bay
in the vicinity of
Colonia the lower
slopes are covered
by coconuts with,
at least in places,
breadfruits scattered
among them.

Paliker District

Open fields of
Ischaemum with
thickets and ravines
full of trees. *Hibiscus*
tiliaceus conspicuous
everywhere, but
occasional patches
of ~~primary~~ forest. *Isra*
is common in the
ravines and thickets.

Aug. 9 Dam pond above
Nanipil, Nöt Dist.
(brought by R. B. Black)

26256 *Nymphaea*
in water

57 *Ecchornea crassipes*
floating

Experiment station,
Aug. 9, Colonia, Ponape

Cultivated ground of
~~around~~ experiment
station

58 *Borreria*
weed in orchard

59 *Averrhoa carambola*
orchard tree

60 *Eugenia caryophyllata*
orchard tree

61 *Psidium*
orchard tree

63 *Achras*
orchard tree

leaves purplish green
flowers white.

flower lavender, upper
petal purple with
yellow spot in center.
petiole scarcely or
not swollen.

plant erect; flowers
lavender, 4-merous.

panicle dark red,
calyx bright red,

petals purple
small tree, aromatic

when broken with
strong clove scent

ripe fruit greenish
yellow, sweet.

fruit brown, not quite
ripe, full of a very
sticky latex.

26252 *Eugenia agnes*
orchard tree

large tree with
abundant white
pink aromatic fruit.

Aug. 9 -

hill between Nanipieru
and Palikru
open hills completely
dominated by *Gleichenia*,
with trees in ravines

26264 *Fagraea berteriana*, var. *sain* (G.B.) Fed.
tree in ravine

"pui" or "sain" (Bascom T37)

65 *Pennisetum purpureum*
common in grassland
below *Gleichenia* area

(Bascom T159)

66

tree in deep ravine

67

Jussiaea
along road

68

Borreria
roadside

69

Lantana camara
edge of ravine

(Bascom T158a)

70

Blechnum orientale L.
common in eroded places
and cut banks

tree 10 m. tall, flowers
cream white, turning
deep yellow, very
fragrant, ripe fruit
orange.

clumps 3-4 m. tall.

(imported by Japanese
and planted on a large
scale for paper making,
a factory was established
nearly.) "pohso"

small tree; buds white.

"kanpap" (Bascom T22)

erect herb 1 m. tall

"teleurak"

flowers white.

shrub 1.5 m. tall,
flowers yellow, turning
deep rose. "tukasueveth"

rhizome a small trunk
about 3-4 m. tall.

"paipai aramai" (Bascom T121)

20271 *Coleus*
just outside edge of woods
in deep *Gleichenia*

72 *Chrysopogon aciculatus*
in bare spots

73 *Ischaemum*
rare in spots where
Gleichenia is thin or absent

74 *Scleria*
clumps here and there
where *Gleichenia* is thin

75 *Miscanthus japonicus*
clumps on ridge
"sapala" Bascom ^{T116} ~~T115~~

76 *Pteris*
abundant in small
burned area.

77 *Fimbristylis*
common in small
area where *Gleichenia*
is absent

78 *Premna glauca* R. Br.
occasional on ridge

79 *Zingiber zerumbet*
common along ridge

(Bascom 39e)

"ong en palalen Ponape")

erect herb 1.5 m. tall,
corolla lips purple,
tube white. plant
aromatic. "karamath" ^{fruit purple}
creeping, scape (Bascom
T59a)
erect.

clump 1.5 m. tall.
"sapasap en mal" (Bascom T113a)

culms 2-3 m. tall,
leafy even when
panicle is old and shattered.
rhizome shallowly
buried, fronds erect.

erect tufts.

shrub 1.5 m. tall, "topunk"
ripe fruit black. (Bascom T34)
plant with strong
ginger odor when broken,
rhizome yellow when cut,
inflorescence filled with
clear aromatic mucilage,
bracts green with red margin.

- 26230 Glochidion
occasional on ridges
and slopes
- 81 Commersonia bartramia
common in ravines
and along roadsides
- 82 Eurya
common in ravines
- 83 Glochidion
occasional on ~~slopes~~ ^{slopes}
- 84 Paspalum abiculare
common in open and thin
places in Gleichenia
- 85 Pteris
occasional in thin place
in Gleichenia, shaded
by it.
- 86
common, scattered on
slopes, entering secondary
forest.
- 87 Lelera
common on slopes
- 88
one plant seen on slope (with 26286)
- 89 Glochidion
on slope

- shrub 1-1.5 m. tall;
flowers yellow, fruit
white.
- shrub up to 3-4 m.
tall, flowers white.
- small tree 4-5 m.
tall, leaves distichous,
flowers white. "paapa"
- shrub 1 m. tall,
flowers yellowish.
culms erect.
- fronds erect, rhizome
buried.
- (Baseom 44) shrub 1 m. tall (much
taller when in forest),
flowers bright rose
pink. "kiritik mai" fruit eaten.
- clumps, mostly
without fruit.
- shrub 0.5 m. tall,
flowers white. "kiritik mai"
fruit eaten.
- shrub 1 m. tall.

- 26290 *Gleichenia linearis*
dominant on slopes and
ridges in open
- 91 *Hypoxipodium cernuum*
common on slopes with
Gleichenia
- 92 *Premna obtusifolia* L. Br.
occasional on slopes

same but in
forest on slopes above
~~secondary~~ primary
forest but somewhat
opened up near lower
edges, there tangled
with undergrowth

- 93 *Zingiber*
rare in ravine in
deep shade
"ong en pala"
(Bascom T94)

- 94 *Geocardia herbacea*
on bank along trail

- 95 *Ixora carolinensis* Cassi. Hance
rare in brush along trail

- 96 *Dysoxylum*
rare in deep forest

"natiben mal" (Bascom T97)
forming a continuous
tangle, rhizome at
ground surface.
"katiem mal" (Bascom T99)

small shrub,
ripe fruit black

tall forest largely
made up of "~~Fraxi~~"
"tong" - sterile, looks like *Semecarpus*,
and "Eis" ()

rhizome yellowish,
whole plant with ginger
odor when broken, inflorescence
filled with clear
aromatic mucilage.
bracts bronze-red.

"kaper"
(Bascom T73) - prostrate, fruit dull
red. "Katiem" (Bascom T29)
shrub 1.5 m. tall,
flowers vermillion.
slender tree 5 m.
tall, fruit immature
"maraso" (Bascom T15)

26297

Cyathea

very common

98

Scleria

abundant along trail

99

one tree seen

26300

Psilotum complanatum

epiphytic on tree trunk

01

Hoya

climbing on tree trunk

02

Procris pedunculata

epiphytic on tree trunk

03

Trichomanes bipunctatum

epiphytic on tree trunk

04

*Carex*in ~~open~~ semi-open place

05

Parinari glaberrima Hambl.

common tree

(Bascom T 21)

06

*Adiantum*rare on forest floor
on rocky slope

07

Lentius tuber-regium Fr.tuber embedded in
rotting woodtrunk 2 m. tall (other
seen up to 5 m).specimen only of base,
middle and tip of
frond. "katar" (Bascom T 110)

tangles 2 m. deep.

tree 12 m. tall, flowers
white, petals lacerate.
pendent, sides of
stems smooth.vine, flowers dull
yellow "teketek" (Bascom T 74)stem fleshy,
pistillate flowers white.
["pwaket" (Bascom T 56)]

clumps

"sapasap" (Bascom 113)

tree up to 10 m. tall,
fruit brown. "ais" oil from
seed quick drying oil for candles.said to have been
exported in large quantities
by Japanese, reported to have
been used medicinally, ^(stomach) and
for making face powder. "uselenthong"

Aug. 10 - Colonia, near
Agricultural Station
marshy cane brake

26303

Phragmites karka

abundant locally in
marsh, forming small brake

09

Rynchospora

edge of brake

09a

Ischaemum

Aug. 10 - peninsula east
of mouth of Townjokala
River, Nöt, Ponape
lower slopes just above
bay

10

Cyrtosperma

cultivated in marshes

11

Cyrtosperma

cultivated in marshes

12

Paspalum orbiculare

common along road

13

Passiflora foetida var. hispida (DC.) Killip

common everywhere

canes ~~4-5~~³⁻⁴ m. tall
"Liurá"

petioles curiously
cross mottled with
bronze and pale green
"mwong en nukur"
no prickles. (Barson 41)

petioles reddish
toward base, somewhat
prickly toward base
"mwong en main" (Barson 4d)

tufts, erect "ran'ta"
(Barson T 89)

vine climbing in brush,
flowers white, base
of corona segments purple
"pompom" fruit eaten.

26314 *Cyrtosperma*
cultivated in marshes

15 *Colocasia esculenta*
cultivated or spontaneous
in edge of marsh
(Bascom 5g)

16 *Xanthosoma*
cultivated in yard
(Bascom 5d)

17 *Alocasia macrorhiza*
cultivated in yard
(Bascom 27i)

18 *Piper methysticum*
cultivated in yard
(Bascom

19 *Colocasia esculenta*
cultivated in yard in
wetish place

petioles faintly bronze
toward base, with very
few prickles "mwang en
natik" (Bascom 4cc)

petioles purple toward
top "sawa en mwaramwai"
corn eaten, flowers said
to be used for garlands.

plant acaulescent,
leaves up to 1.5 m. tall,
blue-green above, very
glaucous beneath,
spathe erect, borne
in a spiral series

enclosed in bracts
when very young,

spathe pale green,
flowers cream color,
odor of stale chewing

gum "sawa en awai"
leaves erect, ^{with slight angle} bright
green on both sides,

"oth sapuken" stem eaten

~~shrub~~ 1 m. tall
"sawhaw" roots used
to make drink of same name.

petioles maroon purple.

"sawa waitata" or
red taro. corn eaten

- 26320 *Colocasia esculenta*
cultivated in yard
- 21 *Bambusa vulgaris* Schrad. ex Wendl. det McClure
growing near dwellings

(Bascom T147a)

- 22 *Pandanus*
in thickets, shaded
(Bascom T154)

- 23 *Dioscorea bulbifera*
in thickets

- 24 *Derris elliptica*
in thickets
(Bascom T68a)

- 25 *Derris trifoliata*
edge of mangrove swamp

- 26 *Clerodendrum* ^{um} ~~um~~ inerme

(Bascom 52)
petioles green
"sawa en kusai" corn eaten.
close clump of culms
about 10 m. tall, inter-
nodes very short.

2 small sheaths from
4th & 5th nodes, larger
ones picked up on ground.
no fertile branches seen.

"pari en Ponape"
a small, slender, bushy
Pandanus that grows
in thickets at low
altitudes and is
said never to fruit
"Mwatal"

wine climbing in
trees, tubers both
underground and aerial.

"palai" (Bascom 29a)
vine-like, leaves
glaucous beneath.

"up bitik" roots
used ~~in~~ for fish poison.
vine, sterile.

"kan arai" not used
for fish poison.

spawling shrub; flowers
white with purple stamens
and style. "ilaw" used for perfume.

26327 *Desmodium*
along seashore

28 *Barringtonia asiatica*
along seashore

29 *Wedelia biflora*
along seashore
(Bascom T138)

30 *Indigofera ^{spicata Forst.} ~~descaephyllo~~*
along seashore on road
embankment.

Aug. 10 - vicinity of U,
U District, north coast
of Ponape
coastal ~~strip~~ strip and
edges of mangrove swamps

31 *Thespesia populnea*

32 *Gardenia jasminoides*
cultivated in door yard

33 *Curcuma*
cultivated

(Bascom 39a)

shrub; leaves slightly
glaucous beneath;
flowers white.

tree 10 m. tall; fruit
square, "wi" said

shy poison
n T131)

check *Sonneratia*
coll.

(Bascom 124)

up to
wens
an"
tensing,
pink,

"kawtaw"

flowers
deep maroon
red
(Bascom T130)

shrub 3 m. tall; flower
white, very fragrant.

"yosef 7 sarawi"

root deep orange red within,
fragrant, used in food
"ongetik"

check denomination
coll.

(Base on 124)

"kawtar"

26327 *Deanodium*
along seashore

28 *Barringtonia asiatica*
along seashore

29 *Wedelia biflora*
along seashore
(Bascom T138)

30 *Indigofera* ^{spicata Forst.} ~~endesphylla~~
along seashore on road
embankment.

Aug. 10 - vicinity of U,
U District, north coast
of Ponape
coastal ~~strip~~ strip and
edges of mangrove swamps

31 *Thespesia populnea*

32 *Gardenia jasminoides*
cultivated in door yard

33 *Curcuma*
cultivated

(Bascom 39a)

shrub; leaves slightly
glaucous beneath;
flowers white.

tree 10 m. tall; fruit
square, "wi" said
to be used for fish poison
in Kity. (Bascom T131)

tangled herb up to
1.5 m. tall, flowers
yellow "ngkau"

prostrate, extending,
flowers salmon pink,
very rare.

tree 3 m. tall, flowers
yellow with deep maroon
center. "pine" wood
used for canoes. (Bascom T130)

shrub 3 m. tall; flower
white, very fragrant.

"yosef" sarawi

root deep orange red within,
fragrant, used in food
"ongetik"

- 26334 ~~Hibiscus~~ *Hibiscus* ~~canariensis~~
weedy roadside
- 35 *Ipomoea pes-caprae*
roadside along shore
- 36 *Curcuma*
cultivated (Bascom 39b)
- 37 *Tenacium*
about houses in wet places
- 38 *Hedyotis coronarium*
very common in wet places
(Bascom 39g)
- 39 *Claoxylon* ~~on~~
large tree in yard
- 40 *Dioscorea*
cultivated
- 41 *Dryopteris*
very common everywhere,
making up a large part
of the ground cover
- 42 *Dioscorea alata*
cultivated in dooryard
(Bascom 1a8)
- 43 *Humnata*
on tree trunk in mangrove swamp

- herb 1 m. tall &
"kaanth" or "matai"
prostrate, extensive,
flowers purple "sonsol"
root bright deep yellow,
used as dye "ongalap"
sprawly herb up to
1 m. long, flowers white
"alis en kat"
- (Bascom T37)
- herb 1 m. tall, flowers
white with yellow
spot on large segment,
very deliciously fragrant
"siner pwetepwet"
large tree. "kawye"
(Bascom T16)
- vine "kapwatik en
kapwalap" (Bascom 1b8)
- grasses erect.
- vine, lower leaves
alternate, upper opposite,
base and summit of
petiole maroon-purple
"kaapin panigan ~~pet~~ pwetepwet"
- "mwathil eniak"
(Bascom T101)

26344 Vittaria

on tree trunk in mangrove swamp

45 Nephrolepis acutifolia (Desv.) Christ

hanging vertically
from tree trunk in

mangrove swamp

46 Canavalia cathartica Thunb.

edge of mangrove swamp

47 Dioscorea ~~esiculenta~~ ^{nummularia Lam.}thicket near dwellings
wild

48 Dioscorea alata

wild in thicket near
dwelling

49 Capsicum frutescens

spontaneous about dwellings

50 Inocarpus fagiferus

near dwellings

(Bascom 76a)

(thick skinned var.)

51 Antirrhinum

near dwellings, said to
have been introduced by Japanesedet 1976
Jarrett

fronds elongate (2-3 m.)

pinnae easily caducous

"rathil" (Bascom T97)

vine, roots a tangled
mass of thickened curved
roots, said to enter and
leave the ground thus
~~KK~~, base of stem
very prickly.

"kapnair kapnair"

tuber eaten. (Bascom 166)

"kaapwalap"

tubers eaten. (Bascom 162)

shrub, flowers greenish white,
ripe fruit red, very peppery.
"sele" (Bascom 38f)tree 12 m. tall, fruit on
ground beneath (out of
season now. "marap"
seeds eaten baked.flowers deep violet,
white spot on palate

- 26352 *Ipomoea*
common generally
- 53 *Kleinhorvia hospita*
coastal flat (Bascom T39)
- 54 *Hibiscus tiliaceus*
abundant everywhere
(Bascom T14 a)
- 55 *Vitex negundo*
rare along sea shore
- 56 *Curcuma*
wild near dwellings
(Bascom T95)
- 57 *Ocimum*
planted near dwellings
- 58 *Gomphrena globosa*
garden
- 59 *Gomphrena globosa*
garden
- 60 *Dryopteris*
road cut
- 61 *Bixa orellana*
along road, planted

- Trees
- A - for paddles only. hard
heavy dark wood
(relatively) singler
- B - for outrigger floats
leaf, tree with white light
wood narrow
"cai" a
- C - for fibre, floats, paddles
etc. Bushy, light
white wood. when
purple.
upper
- purple,
ish
g.
"Bascom"
- various names, bracts
deep magenta "pawerwaitata"
made into garlands to
be worn around hair.
bracts pink "kopunior"
- bush 2 m. tall, flowers
bright pink; red oil of
seed used to color soup.

26352 *Ipomoea*
con

53 *Klein*
coa

54 *Hibisc*
ab

55 *Vitex*
ra

~~56~~
56 *Cucur*
wit

57 *Oxir*
sp

58 *Gomphrena globosa*
garden

59 *Gomphrena globosa*
garden

60 *Dryopteris*
road cut

61 *Bixa orellana*
along road, planted

vine climbing trees
flower purple

"*Hikraam*" (Baroon 765)

tree 10 m. tall, flowers
pink "kalan en ant"
small tree, flowers
yellow with maroon
center. "petakai" a
kind of "kalan"

shrub 2 m. tall,
leaves aromatic when
rubbed; flowers purple.
herb 1 m. tall, upper
bracts ~~the~~ rose-purple,
flowers yellowish
~~the~~ "aulong"

aromatic herb

"katharin" ~~Baroon~~

bushy herb, bracts
deep magenta "pawerwaitata"
made into garlands to
be worn around hair.
bracts pink "kopunior"

bush 2 m. tall, flowers
bright pink; red oil of
seed used to color soap.

1946 Caroline Is.

- 62 *Rhizophora apiculata* Bl.
mangrove swamp
- 63 *Rhizophora mucronata* ~~Bl.~~
mangrove swamp
- 64 *Bruguiera*
mangrove swamp
- 65 *Davallia solida*
on trunks of mangroves
- 66 *Cyperus ~~stuppeus~~ javanicus*
on fallen log in mangrove
swamp
- 67 *Crotalaria ~~sativa~~ ^{mucronata} Desv.*
roadside. said
to have been introduced
by Germans to green manure
coconut plantations.

Coastal lowlands
back of mangrove
swamps are dominated
by coconuts, but with
much breadfruit, some
Inocarpus, *Claoxylon*,
and various other trees.
Colococcus common
locally. Bananas
are abundant. One

great thickets
of *Pithecellobium*
tiliaceum

- small tree "ak elal"
(Bascom T23 a)
- small tree, leaves
punctate beneath
"akapa" (Bascom T123 d)
- small tree; calyx and
hypanthium red
"som" a kind of "ak" (Bascom
T123 e)
- "ulungen liel" (Bascom
T58)
- "use" (Bascom T92)

erect herb, 1 m. tall,
flowers yellow,
banner with dark
brown lines. "kaianao"
"kaianao"

plant of *Musa fehi* seen.
Cyrtosperma raised in
marshes, along with
some *Colocasia*. *Colocasia*,
Alocasia and *Typhonium*
in dooryards.

Wetish places are largely
filled with *Pedychium coronarium*,
Dryopteris parvifolia, *Ischaemum*
etc.

Seen from the ocean
the fore hills and lower
main slopes are covered
by coconut plantations.
Above these is usually a
broken patchy zone,
then the mountain forest
on the steep slopes above.

Here and there on ridges
are the so-called "deserts"
or "mal", dominated by
Gleichenia.

Aug. 11 Nanmatol Islet,
Matalanim, Ponape
^{sand flats and} land built up of ~~coral~~
broken coral by ancient
inhabitants for a temple
site. Temple walls
of basalt columns
stacked like cordwood,

76368 *Enhalus acoroides*
covering shallow lagoon
bottom inside the
islands.

68a *Thalassia hemprichii*
mixed with *Enhalus* (26368)

69 *Sonneratia caseolaris*
common on sand flats

70 *Premna obtusifolia* R. Br.
on temple platform

71 *Paspalum conjugatum*
on temple platform

72 *Digitaria timorensis*
on temple platform

73 *Phyllanthus* ^{*amarus Schum. & Th.*} ~~*amarus*~~ ^{Det. G.}
on temple platform

74 *Eragrostis amabilis*
on temple platform

the whole islet held
by a retaining wall
of huge basalt blocks.
Mangrove trees covering
all except the temple
platform and walls.
Slight admixture of
low island species.

spreading by rhizomes,
leaves distichous, each
edge with a heavy fiber.
fruit ~~obovate~~ ovoid,
terete. "oloth"

fibers used for small
hand fish nets used by women.

spreading bushy tree,
pneumatophores tall
and sharply conical,
"kawtau" (Bascom T124).

bush 1.5 m. tall; flowers
green "aw" wood used for drums.
rooting at nodes, culms
erect. "rein wai"
spreading

erect. "limairpwong"
(Bascom T51)
spreading tufts.

- 26375 *Vernonia cinerea*
on temple platform
- 76 *Flourensia nederlands*
~~on temple platform~~
coral rock
- 77 *Peperomia*
on coral rock fill
- 78 *Nephrolepis biserrata*
on basalt temple wall
- 79 *Peperomia*
in crevices in basalt temple wall
- 80 *Messerschmidia argentea*
on coral fill
- 81 *Polypodium scolopendrium*
on logs and ~~rocks~~ in
mangrove swamp
- 82 *Hoya*
tangled in trees of mangrove
swamp
- 83 *Heritiera littoralis*
mangrove swamp
- 84 *Derris trifoliata*
mangrove swamp
- 85 *Cordia subcordata*
mangrove swamp
- 86 *Caesalpinia sappan* Bonduc (L.)
edge of mangrove swamp Roxb.

- flowers purple
- stems red, fleshy
"sau mwal"
- plant fleshy
- "rawtil"
- plant fleshy
- spreading rounded tree
4 m. tall, leaves fleshy,
silvery green, flowers
white.
- rhizome creeping
"kithen" (Bascom T57)
- vine with fleshy leaves
"tekitek" (Bascom T74)
- tree 5 m. tall, sterile.
"manapwenseth"
- extensive tangled vine;
flowers pale pink.
- small tree
- sterile vine (buds), tangled
in trees "kasapal" (Bascom T131)

- 26387 *Colubrina asiatica*
edge of mangrove swamp
- 88 *Procris pedunculata*
abundant on temple walls
- 89 *Curcuma*
in temple enclosure
- 90 *Tacca leontopodioides* ^{et al.}
on temple platform,
coral fill.
- 91 *Scaevola frutescens*
on sea wall of huge
basalt blocks
- 92 *Rhizophora mucronata* Lam.
dominant on sand flats
covered by ~~high~~ tide
- 93 *Pemphis acidula*
edge of mangrove
swamp, on sea wall
- 94 *Guettarda speciosa*
mangrove swamp
- 95 *Smythea pacifica*
mangrove swamp

- scrambling shrub,
flowers yellowish-green.
- fleshy-stemmed shrub
"pwaketh" (Bascom T50)
- caespitose, rhizome
bright yellow, aromatic
and bitter; bracts rose-
purple above; flowers
yellow and white.
not used. "aulong."
- erect herb 1 m. tall,
linear bracts blackish,
flowers green.
"mokimok" (Bascom 24)
- rounded shrubs,
flowers white
"inuk" or "ramuk" (Bascom T135)
- tree 5 m. tall, flowers
white. (2 trees represented)
leaves punctate beneath.
prop roots arching, conspicuous.
- small tree, leaves
sub-fleshy; flowers
white. "ngi" (Bascom T133)
- tree 5 m. tall, flowers
white. "ith" (Bascom T129).
- vine climbing in trees

Aug. 11 - Matalanim

Retas River Pnape

coll. R. Lyman

Xylocarpus

mangrove swamp

Aug. 12 Ronkiti, Pnape

weedy land planted
to coconuts, with
breadfruit, bananas,
and thickets, open
places under coconuts
quite grassy.

26396

Phragmites karka

reed brakes along river

97 *Erythrina*

common along trails

98 *Blechnum pyramdatum*

99 *Paspalum*

common along trail

26400

between rocks of trail

01 *Glochidion*

in thickets

02

Centotheca latifolia Lappacea

common

03

Macaranga
in thickets

tree, fruit hanging.

canes 4 m. tall, hollow
"rao" canes formerly used
to make flutes. (Bascom T152).

Tree 6 m. tall; dry fruit
only. "paai" (Bascom T41)

weakly ascending.
erect or ascending.

small tree 4 m. tall,
seeds red.

shrub 2.5 m. tall "apuit"
(Bascom T25)

26404 *Digitaria*

common under trees

05 ~~*Acleranthus*~~ *Cyathula* *rostata*common ~~is~~ under trees06 *Cyperus*

occasional

07 *Elephantopus* *scaber*
common under trees08 *Dryopteris*

occasional under trees

09 *Urena lobata*

occasional

10 *Eleusine indica*

common

11 *Pteris*

rare under trees

12 *Lida rhombifolia* L.

flowers purplish.

"or en mikantinkap"
tuftserect, 1 m. tall, flowers
pale lavender.
considered a very bad weed.erect herb, leaves
glaucous beneath
"karap" (Bascom T52)
"rea takai" (Bascom T90)rhizome short, erect,
fronds almost erect.

Aug. 13 - Tolun Nanbet,
mountain above Nanipil,
drainage of Tawenjokola
River, Nit, Ponape
wet mosaic ridge
top forest 600 m.

26412 *Lycopodium phlegmaria*
epiphytic on tree trunks

13 *Ilex?*
common

14 *Polypodium*
common, epiphytic on
tree trunks *phyllanthum*

15 *Lycopodium phlegmaria*
epiphytic on tree trunk

16 *Adiantum*
on ground at base of trees

17 *Boltonia*
on tree trunk

18 moss
on buttresses of large tree

19 *Trichomanes* *H. igneo-phyllum* *alternatum*
epiphytic on tree trunks

20 *Lycopodium squarrosum*
epiphytic on tree trunks, rare

21 *Eurya*
occasional

stem arching, tips
pendent.
small tree, flowers
white (rare, stamens
alternate with petals).
fruit green.

pendent, coarser than
#26412

green above, white
beneath.

standing out from
substratum.

fronds pointing downward.

small tree; flowers
white, fruit immature.

- 26422 *Schizaea dichotoma*
under trees
- 23 *Peperomia*
on tree trunk
- 24
Terrestrial under trees
- 25 *Psychotria Merrillii*?
- 26 }
27 } *Pisonia*
28 }
on tree trunk
- 29 *Selaginella banchinae*
on ground
- 30 *Vitex*
rare
- 31 *Claoxylon*
rare
- 32 *Astronidium*
common
- 33 ~~more~~ *Leucobryum sanctum*
common
- 34 *Peperomia*
rare on tree trunks
- 35 *Vittaria*
rare on tree trunks.
- 36 *Spizidium capillifolium*

rhizome deeply buried.

fleshy

leaves with white
strips along midrib;
flowers dull pinkish.
small tree 4 m. tall,
flowers white. stipules
calyptrate without ears.
~~on tree~~ probably three
forms represented.
hard to be sure.

small tree 5 m. tall,
buds white, broken
parts slightly aromatic.
small tree 5 m. tall,
fruit pale green.
small tree 4-5 m. tall,
panicles pendent.
on log.

creeping, fleshy

abundant on tree trunks

same. - marshy
more or less level plateau
or bench, vegetation
a tangled forest, rather
broken down now. The
original forest was

500 m.

26437 *Carex*

abundant locally ~~in~~

38 *Hymenophyllum polyanthos*

on tree trunks, rare

39

on tree trunks

40

~~on tree~~

on tree trunks

41

on tree trunks

42

Polypodium

high on trunks of tall palm

43

high on trunk of tall palm

44

Excoecaria or *Ptychosperma*

abundant but mostly
cut, seedlings very abundant

dominated by palms
(*Excoecaria* or *Ptychosperma*)
which were largely
cut by the Japanese, who
used the ~~the~~ bud for food.
Thousands of seedlings are
coming in now. Other
trees were left, but
are mostly rather
small.

caespitose, up to 1 m.
tall.

pendent

standing out from
tree trunk

creeping, pseudo-bulbs
turning red when old,
flowers deep crimson.

trees 20 m. tall, trunk
3 dm. thick near base,

2-3 panicles on tree at once, below
leaf sheath pseudostem, fruit green.
(flowers white, from another tree, on ground)

26445 *Campnospermum* ^a ~~brachypetiolata~~ ^{Volke}
occasional here,
becomes very common at
lower altitudes.

46

occasional, terrestrial

47

Lindsaya

occasional on tree trunks

48

Selaginella *brachyura*

occasional on ground

49

on tree trunks

50

Asplenium

on tree trunks

51

Spathoglottis

terrestrial, rare, one seen.

52

Coelococcus amicus

2 trees seen at this altitude,
abundant near sea level

53

Dryopteris

on tree trunk, rare.

54

Asplenium

uncommon, on tree trunk

55

Trichomanes *javanicum*

on rocks in small streamlet

tree 10 m. tall, 10 cm.
thick, wood white, soft.
only one raceme found.
"thong" (Paseom 73) Wood
used for lumber.

rhizome creeping
vertically.

leaves somewhat
glaucous beneath.
forming a loose mat.

flower white with
yellow lip with
purplish patch
distally on underside.
palms 20 m. tall, leaves
ascending, specimens
from material fallen
to ground beneath.

dark green.

26456

Peperomia

on tree trunk

57

terrestrial, occasional

58

Barringtonia racemosa
common in forest,
down to sea level

59

Histiopteris incisa
rare

60

Timonius
common in forestsame broad
wooded ridge
with *Ponapea* quite
abundant 250m.

61

Trichomanes javanicum Bl. var.
on rocks in steep trail

62

Selaginella kanehime
on ground between rocks
occasional

63

Ardisia
rare on flat top of ridge
in woods

fleshy

this specimen from
fallen tree, trees up
to 10 m. tall, inflorescence
pendent, usually
much more elongate
than this one, stamens
white.

bluish green

tree 15 m. tall, flowers
white or pinkish white,
ripe fruit black.

dark green

~~over~~single stem 1.5 m. tall,
ripe fruit bright red.

24464

occasional in woods
on flat ridge top

65 *Asplenium nidus* L.
common, epiphytic

66 *Ponapea*
common

67 ~~*Polytrichum*~~ *Stereum*
on rotting wood

small tree 5 m. tall,
buds white.

rosette of ascending
leaves, the top hollow
and collecting dead leaves.
tree 10-12 m. tall,
2 leaves ascending,
2-3 inflorescences
on stem below pseudo-
stem of leaf sheaths,
trunk about 10-12 cm
thick, outer woody
cylinder hard, inflorescences
and flowers white,
fruit green, seed stellate
in cross section, at
immature stage, jelly-
like in consistency.

The vegetation of Ponape, as nearly as can be determined from our brief visit, may be divided into ~~four~~^{seven} general types:

1. The shallow water near shore in the lagoon is dominated by the large sea grass "cloth", with a few algae interspersed. It was not determined how general the distribution of this is, but it is prominent in Ponape and Matalanin harbors.

2. Strand formation is found ~~only to~~ ^{on} a very extent only on several small islets on the reef off shore -

The usual species are found there.

3 Mangrove formation fringes almost the entire coastline and forms extensive islands

in shallow water, especially at the mouth of Ponape harbor. Two species of *Rhizophora*, *Bruguiera*, *Sonneratia*, *Xylocarpus* are common. At the mouth of Matalanin harbor the artificial islands around the Nanmatul ruins are dominated by mangroves, but with a slight admixture of strand species.

4 The narrow coastal strip and the lower slopes are largely planted to coconuts. Where they are not so planted and as far above as human activity has been heavy, a tangled secondary growth, mainly of *Hibiscus tiliaceus* but with a scattering of native trees, is present. Outlines of clearings on the mountain

may be seen, but on closer inspection prove to be solid *Hibiscus tiliaceus*. Under the coconuts weeds of many sorts flourish. A species of *Dachaeumum*, said to have been brought in by the Japanese, completely dominates many open areas. Tangles of *Miscanthus* sp. are common. *Pennisetum purpureum*, also brought in by the Japanese (for paper making) is also common. In low wet places *Hedychium coronarium*, brought from Hawaii, and *Dryopteris parasitica* form a dense ground cover. In still wetter places are brakes of a giant reed. (26303, 26396).

It is in this area that people live, and much of the land is under cultivation, in coconuts, breadfruit, yams, taros and taro-like plants,

Murcinia peltata
is extremely
common,
tangling
over everything

^{bananas,}
Manihot, sweet potatoes, etc. Above Matalanum is a 2500 acre coconut plantation. Sugar cane was formerly cultivated on a fair scale in the Matalanum lowlands.

5 On a few ridges, especially on the west side of the island, are open areas, covered mainly by *Gleichenia linearis*. These areas are apparently, both according to the natives and by observation of burned stems, kept in this condition by repeated burning. Here *Miscanthus japonicus*, *Glochidion*, *Scleria*, and other members of the burned land flora so characteristic of the islands further west are found.

6 The lower forests, up to about 300 m., are tall forests dominated by a number of trees, especially *Parinari*, *Parinarium*, *Campnospermum*, *Ponapea*, etc. The larger trees of this area were not well investigated for lack of time.

The undergrowth in places is rather dense. Large fern, *Heliconia*, etc. with a scrubby sterile *Pranddanus* and a *Freycinetia* make it up.

The forest is wet and filmy ferns and epiphytes are common.

Hibiscus tiliaceus invades this section very readily, both in man-made openings and apparently in landslide scars.

7 The montane rain forest is of a great mixture of species but is dominated by the large palm, *Eleocharis* or *Ptychosperma*. Though this has been largely cut by the Japanese for the cabbages of the terminal bud, millions of seedlings are coming back.

This is a dripping very mossy forest, with a tremendous epiphytic flora, on trunks, branches, and leaves. Filmy ferns are common.

Timonius, *Elaeocarpus*, *Eurya*, *Claoxylon*, and many other trees are common.

The extreme crests were not visited, so it is not known whether there is a special flora there.

Aug. 16 - Kwajalein Islet
flat coral sand 1 m.
around buildings and
roadsides.

26468 *Clerodendron inerme*
planted near buildings

69 *Portulaca samoensis*
on sand mound above beach
rare

70 *Euphorbia chamissonis*
roadside, rare

71 *Scaevola frutescens* (Mill.) Kr.
vacant lot, occasional

72 *Ipomoea albat. tuba*
vacant lot, common

73 *Euphorbia thymifolia*
vacant lot, common locally

74 *Thuarea involuta*
roadside, common

75 *Digitaria*
vacant lot, local

76 *Wedelia biflora*
roadside, common

low spreading bush;
flowers white, stamens
~~near~~ and style maroon purple.

plant fleshy, leaves
somewhat compressed,
flowers yellow, 13-14
mm. across, petals

- apiculate
leaves sub-fleshy,
pale beneath, flowers
greenish.

- bush 1 m. tall, flowers
white, fruit white, fleshy.

- prostrate, extensive,
flowers white, ~~for~~
collapsed before 10:30 a.m.
prostrate, purplish green.

prostrate, forming a
dense mat, ~~not~~ flowering
branches erect.

prostrate, extensive,
flowers yellow.

- 26477 *Lepturus repens*
common locally
- 78 *Triumfetta procumbens*
common locally
- 79 *Messerschmidia argentea*
occasional near
outer beach
- 80 *Ipomoea pes-caprae*
common, used as launns
in front of buildings
- 81 *Sida fallax*
rare, roadside
- 82 *Euphorbia heterophylla*
common, planted as
ornamental and spontaneous
- 83 *Eragrostis amabilis*
common
- 84 *Cyperus*
occasional in wet places
- 85 *Eleusine indica*
common
- 86 *Cenchrus echinatus*
common
- 87 *Phyllanthus* ^{amarus Schum. & Th.} ~~sericeus~~ det. G.
common locally
- 88 *Fimbristylis cymosa*
very common
- 89 *Cynodon dactylon*
abundant, probably planted

- prostrate, spikes
ascending.
- prostrate, extensive,
flowers yellow.
- small tree 4 m. tall,
leaves fleshy, silvery green,
flowers white.
- prostrate, extensive,
flowers bright purple.
- prostrate, flowers
orange.
- herb up to 7 dm. tall.
bracts red at base.
- Tufts, spreading
- caespitose
- caespitose
- caespitose
- erect
- caespitose
- forming dense mats

L. Webster
1955

- 24490 *Centella asiatica*
abundant locally
especially in wet places
- 91 *Portulaca oleracea*
common generally

Aug. 17

(Bennett?).

Kwajalein Atoll
coral sand and gravel
much torn up by
bulldozers, but
being densely revegetated
by a deep tangled

- 92 *Achrosia ^{oppositifolia} paniculata*
common locally

- 93 *Tacca leontopetaloides*
common locally

- 94 *Guettarda speciosa*
occasional

- 95 *Terminalia ~~litoralis~~ ^{samoensis}*
occasional

- 96 *Pandanus tectorius*
occasional

stems prostrate

prostrate
fleshy, flowers
yellow over 1 cm. across,
stamens 10-14.

brush of *Wedelia*,
Messerschmidia,
Leaevola, etc. openings
densely covered by
grasses, *Portulaca*,
Sporobolus, etc.

2 m. small tree 5 m. tall;
flowers white, fruit
green, in pairs.

herb 1 m. tall. tending
to be yellow where

exposed to direct sun
tree 4 m. tall, fruit
immature

tree 4 m. tall, fruit
bright red, terete.

tree 6 m. tall, ripe
fruits from ground
beneath tree; leaves
in 3 conspicuous
spiral ranks.

- 26497 *Cassytha filiformis*
parasitic on *Guetarda*
and other shrubs
- 98 *Digitaria pruriens* var. *microbachne*
local in openings
- 99 *Pemphis acidula*
rare on inner beach
- 26500 *Portulaca oleracea* L.
common in openings
- 01 *Euphorbia hirta*
local in openings
- 02 ~~*Ficus*~~ ^{*Digitaria*} *insularis*
one small patch seen
- 03 *Amaranthus dubius*
one small colony seen
- 04 *Cenchrus echinatus*
common in openings
- 05 *Eragrostis amabilis*
common in openings
- 06 *Ipomoea pes-caprae*
common in openings and
on beaches
- 07 *Morinda citrifolia*
one small bush seen
- 08 *Wedelia biflora*
abundant, forming a
major part of vegetation
in low thickets

stems fleshy, green,
yellow where exposed
to much direct sun;
flowers white.

small tree 5 m. tall;
flowers white.
fleshy, purplish
bronze green.
very chlorotic.

erect

spreading tufts

forming ^{soft} carpet on
ground
prostrate, extensive,
flowers bright purple.

sterile.

herb 2 m. tall, tangled;
flowers yellow.

- 26509 *Pipturus argenteus*
occasional in thickets
- 10 *Lepturus repens*
common in open places
- 11 *Allophylus timorensis*
occasional in thickets
- 12 *Pisonia grandis*
occasional remnants
of original forest
- 13 *Portulaca samoensis*
common on open coral sand
- 14 *Triumfetta procumbens*
common in open places
- 15 *Canavalia microcarpa* ^{Cathartica Thouras}
local, in open place
seen also in thickets
- 16 *Scaevola frutescens*
common
- 17 *Eleusine indica*
occasional around buildings
- 18 *Fimbristylis cymosa*
common in open places
- 19 *Ipomoea alba* ~~t. tuba~~
common
- 20 *Messerschmidia argentea*
common everywhere

shrub 2 m. tall

tufts with runners.

shrub 2 m. tall;
flowers white.
tree 7 m. tall, leaves
up to 3 dm. long

prostrate, fleshy,
flowers yellow.
prostrate, extensive,
flowers yellow.
prostrate, extensive
flowers magenta-pink.

shrub 1 m. tall (seen
up to 3 m.), flowers
white.

caespitose, extremely
variable in size.

vine, prostrate, flowers
white, not open
yet just after noon.

shrub 3 m. tall; leaves
fleshy, silvery green,
flowers white.

24521

Vigna marina
common in openings

22

Chloris inflata
common in openings

23

Pluchea indica
rare, around pile of
oil drums.

24

Thuarea involuta
common in openings

Only two islets of
Kwajalein Atoll,
(Bennett) and Kwajalein
were visited.

Kwajalein Islet is
almost completely
covered by buildings
and roads. Of 27
species of plants seen
only *Cordia*, ^{*Vigna*} *Crinum*,
and an unrecognizable
Euphorbia were not collected.
Cynodon dactylon
(probably planted) is
common everywhere.
Large patches of
Wedelia, *Triumfetta*,

prostrate, extensive,
flowers yellow,
opening about noon.
Tufts, decumbent at
base, then culms erect;
spikes purple.

Bush 0.8 m. tall,
flowers pink.

prostrate, forming
mats.

Centella, *Ipomoea pes-caprae*,
Lepturus are common;
Portulaca oleracea is
general, *Fimbristylis* also.
Ipomoea pes-caprae serves
as lawns in front of
buildings. Shrubby
or tall vegetation is
very scarce - a few
trees of *Messerschmidia*
and scattered *Scaevola*
bushes are about all
that can be seen.
Most areas that are
undisturbed are being
revegetated.

On Bennett Islet the revegetation has reached a much more advanced stage.

Tangled masses of tall *Wedelia*, ^{*Ipomoea*} *Scaevola* and *Messerschmidia*, with occasional *Pipturus* and *Prunus* dominate the island. Scattered taller *Pisonia*, *Pandanus* and coco trees remain. Open spaces are filled with *Cenchrus*, *Chloris*, *Portulaca oleracea*, *P. sarawensis*, *Vigna*, *Ipomoea pes-caprae*, *Lepturus*, *Eragrostis amabilis*, *Timbristylis*, *Triumfetta*, *Ipomoea alba*, *Digitaria*, *Euphorbia hirta* etc. in locally varying abundance with no particular pattern.

Guettarda, *Ochrosia*, etc. are common locally, the larger plants obviously persisting from before the war.

Young *Guettarda* seedlings are common. *Cassytha* is locally abundant, particularly on *Guettarda*.

Tricachne insularis and *Pluchea indica* have obviously been introduced from Hawaii on material ~~to~~ such as oil drums, machinery, etc. brought in during the war. They are not common as yet.

August 19 - ^{Lela} (Lelle) Island,
Lela (Lelle) Harbor, Kusaie
around village and
ruins of ancient temple,
quite moist

26525

Alocasia macrophylla
occasional in village,
spontaneous.

- 26 *Colocasia esculenta*
planted in water in
bomb crater.

- 27 *Cyperus kyllingia*
about village

- 28 *Morinda citrifolia*
in village

- 29 *Pteris*
in ruined temple court

30}

31}

32}

on rotting wood

- 33 *Asplenium nidus*
on wall of ruin, common

- 34 *Ficus prolixa*
in ruined temple court

- 35 *Pteris pedunculata*
walls of ruined temple
court

"onak" not eaten
leaves clear green

"katak" eaten
leaves glaucous green

heads white

shrub, others seen
were trees, "hi"
rhizome short, erect.

rosette of fronds with
dead leaf debris in center
"moilukluk"

huge banyan, compound
trunk 4 m. thru "korya"
stems fleshy,
pistillate fls. white

26536 *Nipa fruticans*
swamp near ruins

37 *Nephrolepis*
wall of ruined temple court
(very common in under-
growth generally at low altitudes.)

- 38 *Peperomia pinnatifida* (L.)
walls of ruined temple
court, basalt blocks.

- 39 *Polypodium scolopendrium*
common on walls of
ruined temple

- 40 *Ficus tinctoria*
growing on trunk of
large banyan

41 *Elatostema*
in ruined temple court

42 *Vittaria*
on banyan trunk

- 43 *Piper pinnatifidum* (L.)
climbing on banyan trunk

- 44 *Derris trifoliata*
climbing on walls
and bushes, edge of
swamp near ruins

acaulescent, leaves
erect; fruit not in
season, those with
specimen lying
near plant, some
germinating "faasha"
fronds erect to
arching, mostly sterile.

fleshy

shrub; leaves
venulose beneath,
figs immature "shra"
stem fleshy, branched
especially at base.
fronds pendent.

vine (longer & spikes
picked up on ground
beneath.)

vine, flowers pink.

26545 *Laportea Dendrocnide kusaiana* (Kunth.) Chew
common in ~~at~~ ruined
temple court

- 46 *Achyranthes* ^{*cyathula*} *prostrata*
weed in village

- 47 *Denia elliptica*
~~is~~ common everywhere

- 48 *Premna* ^{*renatifolia* L.} *obtusifolia* R. Br.
common generally

- 49 *Impatiens balsamina*
cultivated in garden.

- 50 *Cordia subcordata* Lam.
near dwelling

- 51 *Laportea*
~~*florosa*~~ *ruderalis*
coral rubble

small tree 4 m. tall,
not stinging except
flowers, which, when
rubbed on tender skin
~~just~~ make a red spot
which burns somewhat
for a few hours.

(sap and leaves tried
with no result) "elaat"
flowers pinkish

vine-like; roots
lactiferous; leaves
glaucous beneath; sterile;
"up" or "poison" roots
used to poison fish.

small tree 5 m. tall;
flowers green, aromatic;
fruit immature "fienkak"
stem fleshy, flowers
pink. plants up to 0.8 m.
tall.

shrub 2 m. tall,
flower deep bright orange
"ikwaiaak" flowers
used to ornament hair;
wood used for paddles.
plant reddish.

- 26552 *Peperomia pellucida*
common on coral rubble in path
- 53 *Caesalpinia pulcherrima* (L.) Sw.
~~*splendens*~~
in dooryard, planted
- 54 *Pseuderanthemum ~~elaeagnifolium~~*
~~*elaeagnifolium*~~
in dooryard, planted.
- 55 *Sida acuta*
in village
- 56 *Pilea microphylla*
in paths on coral rubble
and in crevices in rock walls.
- 57 *Pipturus argenteus*
~~in~~ in old enclosure
in dooryard
- 58 *Pipturus argenteus*
in old enclosure in
dooryard
- 59 *Phyllanthus ~~parvifolius~~* ^{*amarus* Schumacher} det. G. L.
common in village

fleshy.

shrub 2.5 m. tall,
fls. yellow "repawtin"
shrub 2 m. tall, leaves
clear green; flowers
white, strongly dotted
with crimson around
throat, one lobe pointing
down, 2 laterals very
slightly down, 2 upper
ones erect and overlapping.

"kaiawak"

herb, 1 m. tall, flowers
yellow, few. fruit black.
plant fleshy, spreading.

shrub 2.5 m. tall ♂
"alko" leaves white beneath

shrub 2.5 m. tall, ♀;
leaves white beneath,
fruit white, fleshy.
"alko"

erect.

Webster
1955

26560 *Calophyllum inophyllum*
along beach

Aug. 19 lowest slopes
and foot of Mt. Matante
north of head of Lela (Lela)

Harbor, Kusaie

low ridges, ravines
and marshes, with
Manihot patches, thickets
patches of woods, etc.

- 61 *Angiopteris execta* ^{4 m. tall}
wooded ridge

62 *Psychotria*
wooded ridge

- 63 *Oplismenus compositus*
wooded ridge, local.

- 64 *Centotheca latifolia* ^{Pappacea}
wooded ridge, common

- 65 *Polyscias subcapitata*
occasional on wooded ridge

- 66 *Piper nappense* C. DC.
climbing tree trunks

great tree 15 m. tall,
trunk 1 m. thick, lactiferous;
flowers white "iti"
wood used for lumber.

rhizome short, erect,
very thick; stip bases
surrounded by stipules,
fronds 4 m. long.

shrub 3 m. tall, flowers
white; stipules not
calyptrate; fruit red
when ripe.

decumbent, fruiting
culms ascending
culms tangled, ascending

shrub 2 m. tall

wine.

- 26567 *Dryopteris parasitica*
 abundant everywhere
 in undergrowth
 - 68 *Dioscorea bulbifera*
 common on wooded ridge
 very large, said to
 be a serious weed, killing
 even coconuts by strangling
 and smothering
 69 *Asplenium*
 common on tree trunks
 on wooded ridge.
 70 *Melochia*
 occasional in old
 Manihot patch on
 ridge
 - 71 *Ipomoea indica*
 common in thickets
 in old Manihot patch on
 top of ridge
 - 72 *Ipomoea Memecis peltata*
 common in thickets, this
 one in treetops
 73
 common wooded ridge

- rhizome short, erect,
 fronds erect.
 large herbaceous vine.
 sterile. "bula" (fide Paul Gantt)
 rhizome creeping
 up trunk vertically.
 small tree 4 m. tall,
 flowers fragrant,
 crimson with pale margins.
 large vine, flowers
 purple, deeper in
 throat, anthers ~~straight~~ straight,
~~filaments~~ glabrous;
 leaves pale beneath.
 "asingasing"
 large lactiferous
 vine, flowering very
 rarely, flowers bright
 yellow; ~~filamentous~~ villous,
 anthers spiral, villous.
 "pala"
 tree 10 m. tall, flowers
 yellow, fruit red, aril
 bright red.
 leaves
 distichous

- 76574 *Phragmites karika*
common in marsh
- 75 ^{Ludwigia} *Jussiaea octovalvis* (Jacq.) Raven
abundant in marsh
- 76 *Campnosperma brevifolius*
occasional, this one in marsh
- 77 *Paspalum conjugatum*
opening in Manihot patch
on low ridge.
- 78
common on low ridge
- 79 *Manihot esculenta* crants
cultivated on low
ridge (in clearing)
- 80 *Contharia*? *Neuburgia celebica*
rare on low ground along
stream

- canes 4 m. tall "loa"
- herb 2 m. tall, flowers
yellow, petals, obcordate,
~~falling~~ falling very
readily.
- tree 12 m. tall; flowers
yellow-green; "ka"
wood used for
canoes.
- tangled
- tree 15 m. tall, spreading,
leaves distichous, drooping,
panicles erect. "mumu"
- shrubs 2-3 m. tall,
stems knobby, flowers
green marked with red;
"tapioca" natives were
forced by Japanese to
plant this to feed
soldiers, now eaten
by natives.
- rounded tree 6 m. tall,
flowers white; ripe
fruit orange. wood
used for lumber, fruit
sticky inside, used for glue.

1946

merkusi (Hessl.) Schott
det. DHN: 6/1998

26581

*Cyrtosperma*cultivated in marshy
places

- 82

Cordyline ^{fruticosa} terminalis

occasional in thickets

Aug. 20 north ridge of
Mt. Matanta (Buache),
above Tafonshak village,
n. side of Kusai 300-550
wet thickly wooded
ridge, woods largely
Astronidium and

83

*Elaeocarpus*occasional
~~in~~ in dense forest of
Hibiscus tiliaceus

- 84

*Ficus tinctoria*common in dense forest of
Hibiscus tiliaceus

- 85

Fagraea berteriana var. *kusaiana*
occasional (Hosok.) Forst.

86

*Elaeocarpus*one of dominant trees
in forestleaves erect, becoming
2 m. or more tall,
petioles without
prickles, mottled toward
base. "basha"

corn eaten. (many varieties)

stem 1-2 m. tall; sterile;
root roasted and eaten.*Elaeocarpus* with
~~tree ferns~~ *Cyathea*
above 300 m., dense
undergrowth mostly
ferns; epiphytes very
abundant.150 m. (ex. 1st
2 nos.)

150 m.

slender tree, fruit
immature.

150 m.

tree 8 m. tall, fruits
yellow when ripe,
not eaten here.

200 m.

tree 8 m. tall, flowers
cream white, very
fragrant. "fui"tree 8 m. tall, some
leaves turning bright
red; fruit blue when
ripe.

- 26587 *Marattia laxica*
- very common in undergrowth
- 88 *Lycopodium phlegmaria*
on tree trunks
- 89 *Asplenium*
on tree trunks
- 90 *Cordyline ^{frutescens} terminalis* (L.) Chev.
rare in forest
- 91 *Astronidium kusaianum* Horne
one of dominant trees
- 92 *Eugenia*
common at this altitude
- 93 *Psychotria*
occasional
- 94 *Psilotum complanatum*
occasional, epiphytic on
tree trunks
- 95 *Asplenium*
rare on tree trunks

350 m. acaulescent, fronds about
2-3 m. long, stipe as
long as blade, base of
stipe surrounded by
stipules, blade deltoid,
with about 3 pairs
of ~~primary~~ pinnae,
joints large, fleshy.
- spikes pendent

400 m. single stem 1.5 m. tall,
buds white.

- small tree 4 m. tall,
(others taller); flowers
white.

- small tree 7 m. tall,
~~tree~~ cauliflorous, cyces
on pulvini on trunk.

- shrub 2.5 m. tall,
fruit red; both twigs
from same bush.

450 m. - pendent, sides of
stems smooth, basal
part triquetrous.

2659
2660

Psychotria
occasional

97 *Psychotria*
rare

- 98 *Isura* ^{casei Hance} ~~caplinensis~~
occasional

- 99 *Adenostemma laevius*
common along trail

2660 ~~Psychotria~~ *Phajus*
occasional, terrestrial

01 *Cyrtandra*
fairly common

02 *Cyrtandra*
rare

03 *Tectaria*
occasional

- 04 *Peperomia kusaiensis* Hirohara
rare, on mossy tree trunks

- 05 *Hymenophyllum holochilum*
on tree trunk, common

500 m.

clump of shrubs
2.5 m. tall, possibly
from same root; flowers
white, fruit red.

shrub 2 m. tall,
flowers white, fruit
immature

shrub 2.5 m. tall,
flowers vermillion to
scarlet.

flowers white; "mafulful"
medicine made from
this given women at
childbirth.

erect leaves thin, plicate,
buds white.

stem fleshy; flowers
white, tube strongly curved;
fruit dull white, fleshy.

stem fleshy, pubescent
tawny, close; flower
white, tube curved;
fruit immature.

fleshy

26606 *Asplenium*

on very mossy tree trunk

- 07 *Flagellaria indica*~~common~~ occasional- 08 *Paraflexa* *Ptychosperma ledermannianum*

rare

same - summit ridge
and sides of summit
sides densely wooded,
top ridge open, covered
with ferns, a few
scattered trees with
immense moss cushions
over most of trunk and limbs.

09

open steep ~~bank~~ ^{bank} near
Japanese tunnel

10 *Cyrtandra*
occasional- 11 *Vernonia* *Blumea milnei*

along trail near Japanese tunnel

- 12 *Histiopteris incisa*

on side and top of ridge

250 m.

vine, sterile. "tree"
used for thatch.

450 m.

Tree, buds white,
fruits green, with
~~sap~~ ^{sap} in seed cavity.

550-600 m.

550 m.

prostrate, ~~flowers~~
calyx simulating Begonia;
corolla white with tube,
throat and lower lip
purplish.

stem fleshy, 1 m. tall,
flowers white, tube
curved.

erect herb 3-3.5 m. tall

575 m.

forming tangles,
growth of frond indeterminate.

- 26613 *Pteris*
common on sides of ridge in forest
- 14 *Blechnum orientale*
on cliffs and steep ridge side
at edge of open part
- 15 *Adiantum*
common, terrestrial
- 16 *Dictyonema insipidum* Mont.
on mossy tree trunk
- 17 *Lycopodium cernuum*
common on open ridge
- 18 *Cladocarpus*
occasional on open ridge
common in forest below
- 19
in tree at lower edge
of open ridge top, very
common
- 20 *Davallia humata*
very common on open
ridge top
- 21
rare on open ridge top
- 22 *Polypodium*
rare on branch of tree on
open ridge top
- 23 *Polypodium*
on branches of trees on
open ridge top

rhizome short, erect,
fronds ascending to erect.
rhizome short, erect.

fronds erect

blue green with
white margin.
tangled with ferns.

600m. small tree 6 m. tall,
old leaves bright red,
fruit immature, rare.

575m. pendent, flower
cream color (very
rarely in flower
at this season)

600m.

rhizome short, erect,
edges of frond drooping.

26624

on mossy branches of
trees on open ridge top

25

Elaphoglossum

on branches of tree on open
ridge top

26

~~*Davallia*~~ *Humata*

common, ~~deep~~ rhizome
deep in moss on tree
trunks and rocks on open
ridge top

27

forming deep cushions
on limbs and trunks
of trees on ~~the~~ open ridge top.

- 28

Gleichenia linearis

common on open ridge top

- 29

Melastoma malabothricum v. *marianum*

at edge of forest along
open ridge top

- 30

Astronidium lineare

edge of forest along open
ridge top

- 31

Rubus moluccanus

cliff along open ridge top

32

moss on *Rubus*

- 33

Hymenophyllum polyanthos

on vertical rock face, on
open ridge top, abundant.

leaves distichous;
flowers white.

fertile fronds rare,
twisted.

forming low tangle

shrub 1.5 m. tall,
flowers pink.

shrub 2 m. tall,
flowers white.

prickly vine, tangled
in ferns
bright orange

26634 *Ipomoea gracilis littoralis* Bl.
rare on open ridge top

35 *Nephrolepis*
dominant plant on open
ridge top

Aug. 21 - Valley south of
Lela (Sele) Harbor, Kusaie
Flat weedy valley bottom
mostly an abandoned
sweet potato plantation
and shore of bay.

- 36 *Pennisetum purpureum*
common just back of
strand.

- 37 *Cyperus ^{javanicus} ~~stuppeus~~*
occasional in ^{low} abandoned
field

- 38 *Synedrella nodiflora*
occasional

- 39 *Paspalum ^{distichum} vaginatum*
on pier of coral rock, not common

(40 m.p.) - 40 *~~Sonneratia~~ ^{albida} ~~caseolaris~~*
common in shallow water,
the most abundant mangrove
in the island.

- 42 *Ipomoea pes-caprae*
abundant at top of beach

slender vine, flowers purple.

rhizome erect, stolon-
iferous; fronds erect.

1 m.

clumps 1.5 - 3 m. tall

caespitose, gray-green.

branched herb; flowers
yellow
dense mat

small tree 5 m. tall,
others much larger
"flobol" "bolofol"
wood used for lumber.
prostrate, extensive,
flowers purple,
much deeper in throat.

- 26640 *Chloris radiata*
 - local, on pier
- 43 *Dactyloctenium aegyptium*
 local, on pier
- 44 *Miscanthus ^{Saccharum} japonicus*
 'valley floor toward head
 of valley, common, running
 up slopes in openings and
 old landslides.
- 45 *Luffa cylindrica* var. *insularis*
 weed in abandoned
~~sweet~~ sweet potato patch
- 46 *Ipomoea batatas*
 planted extensively
 by Japanese in heavy
 low land, planted
 on ridges with
 deep furrows between
- 47 *Vigna marina* (Burm.) Merr.
 very abundant from
 beach back to the
 lower slopes of the
 mountains on cleared land
- 48 *Echinochloa colorem*
 common in abandoned
 sweet potato patch,
- 49
 occasional in abandoned
 sweet potato patch.

- decumbent at base, rooting
 at nodes.
- spreading, rooting at
 nodes
- large clumps, canes
 up to 4 m. tall, in
 places forming dense brakes.
- vine climbing on bush,
 flowers yellow.
- vine, flower pale
 purple.
- prostrate, extensive
 forming a thick
 mat at least 0.5 m.
 deep in places, flowers
 yellow.
- erect

20650

Emilia sonchifolia

common in abandoned
sweet potato patch
and lower slopes of
hills

51

same - lower slopes
around head of valley
thick secondary woods
mostly *Hibiscus tiliaceus*
tangled with *Wedelia*
and *Merremia*

- 51

Boehmeria celebica Bl.

along trail, occasional

- 52

Cyathra

rare in woods here,
very common at higher
altitudes

"Po"

- 53

*Wollastonia**Wedelia biflora*

abundant in open
land everywhere, even
up to 500 m. altitude in
landslides, commonest weed in
coconut plantations.

heads purple.

50-150 m

shrub 1.5 m tall,
diffuse; this one all
staminate.

tree with trunk 6 m.
tall, crown of leaves
about 2 m. long,
lance-ovate in outline.
2 complete specimens
of base, lower pinnae,
middle pinna, + tip.
Duplicates of a single pinna
near middle of pond.

herb, forming tangles
2 m. or more deep,
flowers yellow. Said to
be eaten by cattle.

- 76654 *Dioscorea alata*
in secondary woods
- 55 *Ipomoea gracilis* ^{littoralis} ~~littoralis~~
along trail in low
secondary growth
- 56 *Digitaria*
fairly common along
trail and on open slopes
- 57 *Selaginella* ^{kusaiensis}
^{shaded} common on banks above
trail
- 58
occasional along trail
- 59 *Rubus moluccanus*
common in secondary
growth along trail

Aug. 21 south slopes
and ridges of Mt. Tafeyet
(easternmost high peak
in Mt. Crozer range),
south of Lela (Lele) Harbor
~~to Geocardia~~ ~~herbacea~~
common Kusai

- vine climbing into
trees, tubers eaten.
- vine climbing in
shrubs, flower purple,
deeper in throat.
loose tangles

ascending, flowering
very rarely; flowers
with 3 white petals
about equal in size.
vine, rather extensive,
flowers white.
"kokul"

Thick wet mixed
forest interspersed with
patches of *Hibiscus tiliaceus*
(these probably indicating
200-550 m, old landslides). The
forest more mixed than
on Mt. Matante, *Astronidium*
very common but *Clavocarpus*
much less so. Some
openings filled with
Gleichenia sp.

26660

geranioides repens var. *asiaticus*
Geocardia herbacea
 in open ground under trees

61

local on slopes and ridges under trees.

62

local on slopes and ridges under trees

- 63 *Dioscorea* ^{*nummularia* Lam.} *esculenta*
 rare in forest

- 64 *Conthosia* ^{*nerubergii* celebica}
 common in forest

- 65 *Glatostemma* ~~sp.~~
 common in forest

- 66 *Psychotria* ^{*howbromana* var. *squarrosa*} *carolinensis*
 occasional in forest

- 67 *Rubus moluccana*
 occasional along trail

- 68 *Piper ponapense* C. DC.
 very common

200 m.

prostrate, flowering branches erect; flowers white, fruit red.

caespitose

(growing with # 26662)

caespitose

(growing with # 26661)

vine climbing in trees, sterile, prickly toward base. "mata" tubers eaten.

250 m.

-300 m.

large tree, fruits pendent, orange, fleshy, "toa" used for lumber.

erect, tips arching, stem fleshy, leaves distichous venulose beneath.

shrub 2 m. tall, ripe fruit red.

vine-like, flowers white.

vine climbing in trees, fruiting very rarely, fruiting spikes crimson.

26669 Phajus

occasional in forest, terrestrial

- 70 Lycopodium squarrosum
on ~~the~~ mossy tree trunk- 71 Antrophyum plantagineum
on wet sticks and
rock ledges- 72 Gleichenia weatherbyi Forberg, n. sp.
filling openings
with a dense tangle73
rare on slope under trees- 74 Boehmeria celebica
occasional in forest75
common ~~along stream~~ under trees on steep slopes, terrestrial- 76 Trichomanes javanicum Bl.
rare on rocks

400-500 m.

erect, sub-caespitose,
stem thick, flowers
white with yellow
lip densely ^{red} punctate
distally, except margin,
below, this extending proxim-
ally in 2 narrowing lines.

500 m.

300-400 m.

500 m.

rhizome under duff layer,
stipes thick. (definitely
distinct from G. linearis
in much greater robustness,
degree of ramification
and type of pubescence.
creeping, flower
white, lower side of
throat and lower lip
purple.

450 m.

shrub 2 m. tall,
leaves not especially
rigid; flowers all
pistillate.leaves all green,
not in flower at this season.
deep green but translucent

26677 *Elatostema*
on vertical ^{mossy} rock cliffs
in deep shade.

78 *Polypodium*
common on limbs of
leaning tree

- 79 *Boehmeria celebica* Bl.
occasional in woods
on steep slope

- 80 *Ixora carolinensis* ^{casei Hance}
common at this altitude

Aug. 21 - Lela (Lelo) Island
~~in~~ in village

- 81 *Eugenia malaccensis*
planted on slopes
about village

- 82 *Hibiscus tiliaceus*
dominant tree in secondary woods,
this specimen from village

- 83 *Cyperus*
rare, on bank above trail

84
occasional on bank above trail

leaves smooth
beneath, distichous.

shrub 1.5 m. tall; leaves
not especially rugose;
both staminate and
pistillate flowers on
same plant (see #26651, 26674)

250 m. shrub 2-4 m. tall,
leaves dull green,
flowers vermillion to
scarlet.

1-5 m.

tree 8 m. tall, fruit
on branches but not
small twigs, red,
sweet when ripe.

said to have been brought from Hawaii.

tree 5 m. tall, often growing
diffuse and tangled. "lo" ^{bark} used
for fiber, wood for outriggers.
heads green.

flowers lavender.

Kusaie is a high, rugged volcanic island with a coastal plain of coral sand, mangrove swamps, deep embayments, and a fringing reef at places becoming a barrier reef. The deep embayments and the mangrove swamps within the reef suggest a certain amount of subsidence sometime in the past. The sandy plain on the other hand suggests a slight recent uplift or else a subsidence of the sea level. There are two main mountain masses separated by a low pass. Both are surrounded by very steep slopes and cliffs, and have evidently been affected greatly by landslides.

The complexity of this terrain gives rise to a vegetation that is too complex to gain much of an idea of in a three

day visit. One day was spent in the lowlands around Lela Harbor. One in going around the east side to the north side then up Mt. Matante. The third across to the south side of Lela Harbor, up to the pass above Malem, then up Mt. Tafeyet.

Strand vegetation is found on the outer edge of the coastal plain, where almost atoll conditions prevail. This sandy flat land has been thoroughly planted to coconuts. Scattered strand trees such as *Guetarda*, *Thespesia*, *Pandanus*, etc. persist along the beaches. ~~The~~ *Pandanus* is scattered through the plantation, allowed to persist because of the edible fruit and useful leaves. Bread-fruit trees are also found

here, though more abundantly on the lower slopes of the mountains.

The dense weed growth on the sand under the coconuts is very largely *Wedelia* and *Premna*.

These form a luxuriant solid thicket up to 4 m. high. This is usually cleared frequently but apparently replaces itself without succession.

On the east side, ~~between~~ ^{between} the coconut strip and the foot of the mountains is an extensive mangrove swamp. Here *Sonneratia caseolaris* is the dominant plant, but *Bruguiera* of at least one species and probably 2 species of *Rhizophora* are common. *Nipa* is not rare. *Xylocarpa* is conspicuously absent. *Acrostichum aureum* was not noticed. This swamp probably

fills an old lagoon.

A fringe of mangroves surrounds the head of Lela harbor and down the south side. This also is mostly *Sonneratia*.

On the southwest side, at Malem, is a strip of coconuts along the beach and up into one or two valleys. Nothing is known of the west side.

Both at Malem and in the valley south of Lela Harbor are sizeable areas of low flat land, formerly in coconuts but cleared and used by the Japanese for plantings of sweet potatoes. These are now abandoned and largely grown up to weeds. *Paspalum conjugatum*, *Jussiaea*, *Phragmites*, and some *Miscanthus japonicus*. The ground is very

hard even when moist.

The lower hills are ~~all~~ ^{mostly} either a planted association largely coconut, ^{bananas} and breadfruit, or secondary thickets of *Hibiscus tiliaceus* and a few other species.

Oranges and limes are scattered here and there.

Occasional ridges are cleared at their lower broader ends and planted to Manihot, which the natives were forced to plant by the Japanese.

The plants are tall and spindly and the roots small. Around the

villages is the usual assortment of weeds, but with *Passiflora foetida* strangely absent.

On the wooded lower slopes *Hibiscus tiliaceus* is completely dominant but *Ficus tinctoria*, *Laportea kusairensis*, *Pandanus*, *Courthoria* (?), etc. are

evident. Tangled with these are ^{*Rubus moluccanus*} *Merremia peltata* and *Dioscorea bulbifera*. The latter is considered a serious pest, growing very luxuriantly here, even climbing in great profusion to the tops of coconut trees and, according to the natives smothering them to death. In open

places are thickets of *Miscanthus*,

Wedelia, *Merremia*, and *Nephrolepis*, ^{*Dryopteris*}

The lower edges of ^{*elephantopus*} the ~~so~~ primary forest have numbers of #26573 + 26578 (which look much alike and may be the same), one or two species of *Claoxarpus*, *Cyathea*, *Campnosperma*, *Courthoria* (?), etc. with abundant ferns, both terrestrial and epiphytic - ~~Angiopteris~~ *Angiopteris*, *Tectaria*, *Nephrolepis*, *Dryopteris*, ~~dentata~~ *paracitica*,

Pitheca
climbs
the tree
trunks.

Piper

Adiantum, ~~etc.~~ *Asplenium*
nidus, ~~etc.~~ *Marattia*,
 etc. *Polyscias* and
Ixora are common shrubs.
 Higher up on the steep
 slopes the forest becomes
 even wetter and more
 moss-covered and
 epiphytes more common.
 On the slopes of Mt.
 Mataute this forest
 is largely *Elaeocarpus*
^{*Cyathea*} and *Astronidium*.

On Mt. Tafeyet the
Elaeocarpus is less
 common and numerous
 other things enter
 more strongly into the
 composition. Ferns of
 multitudinous kinds
 are the most obvious
 group of plants. *Marattia*
 is very common.

Through both of
 these belts of forest,
 especially on the
 southern group of
 mountains, landslide
 scars are evident,

Piper
 is common
 climbing
 the trees.

filled with *Wedelia*,
~~etc.~~ *Nephrolepis* and
Gleichenia sp. where
 recent and with
Hibiscus tiliaceus where
 older.

The top ridges, especially
 of Mt. Mataute are
 open and covered with
 a deep tangle of *Nephro-*
lepis, *Gleichenia*, ~~etc.~~ *linearis*,
Lycopodium cernuum, ~~etc.~~
Davallia ~~sp.~~ sp., (aff. *solida*),
 etc. with great cushions
 of mosses and hepatics.
 A few trees (*Elaeocarpus*)
 grow on these ridges and
 are deeply covered
 with moss & hepatics
 which support orchids and
 a small *Davallia*, as well
 as other ferns.

Only here does a trace of the
 aggregation of species characteristic
 of eroded areas further west
 make its appearance - *Gleichenia*,
Lycopodium, *Blechnum*, *Melastoma*.
Miscanthus japonica and *Blechnum*
 grow on the landslides and bar
 slopes lower down in secondary area.

1946 Marshall Is.

Aug. 23 - Jabor, Jaluit I.
slightly elevated
coral reef rock and
broken coral with
small areas of sand.

Blechnum pyramidatum
Stachytarpheta dichotoma,
Artocarpus altilis,
Crotalaria sp. ~~and~~ *Citrus* sp.,
Ficus ^{elastica} sp. (*macrophylla*?)
were seen by others and not
collected.

76685 *Ipomoea alba* L. tuba
occasional

86 *Euphorbia charismensis*
rare, edge of low thicket

87 *Morinda citrifolia* L.
occasional in thickets

88 *Allophylus* *limosensis*
occasional in thickets

Jaluit Atoll

This area has been
almost completely
denuded by Japanese
military construction
and subsequent
bombardment. Now
it supports a luxuriant
growth of *Scaevola*,
Messerschmidia, *Ipomoea*
pes-caprae, *Vigna*
marina, etc.

A large flat of exposed
rock supports a pure
stand of *Pemphis*.

vine extensively creeping
and climbing; flowers
white, collapsed by

11 a.m.

much branched at
base, leaves and
branchlets distichous,
sap milky, leaves pale
beneath.

Shrub 1.5 m. tall,
flower white; ripe fruit
white. "nin" leaves used
medicinally, roots for blue dye.
shrub 1 m. tall, fruit green.

26689 ~~Polyporus~~
on rotting wood

✓ 90 *Sonneratia* ^{Alba J. Sm.} ~~casuarina~~
a few trees on tide flat
of broken coral on lagoon
side.

✓ 91 *Canavalia* ^{cathartica Thomas} ~~microcarpa~~
common on ground and
climbing over wrecked
buildings.

✓ 92 *Guettarda speciosa*
common in thickets

✓ 92a *Allophylus*
in thickets - tree-like shrub 3 m.
tall, flowers white.

✓ 93 *Wedelia biflora*
common in open places

✓ 94 ~~Lepturus~~
✓ 94 *Lepturus repens* ^{reptens}
common in open places.

✓ 95 *Eragrostis amabilis*
occasional, this in
a ~~box~~ box of earth.

✓ 96 *Cordia subcordata*
rare in thickets

✓ 97 *Cyperus pyllingia*
rare, ^{one tuft} in box of earth

bright orange-vermillion,
the color running and
staining papers when wet.
gnarled tree 4 m. tall,
spreading 8-10 m.
leaves fleshy. young
fruits very scarce.
— extensive vine,
flowers bright
magenta.

shrub 2 m. tall,
others taller; flowers
white, fragrant,
all shed by ~~10~~ 10.30 a.m.
— fruit immature. "vout"
semi-prostrate, ~~resinous~~
herb, flowers yellow.
"merkueue" eaten by Japanese.

— tufts with runners,
forming a loose
mat.

sterile shrub 2 m. tall

heads white

- ✓ 26698 *Euphorbia chamissonis*
rare on broken coral
- ✓ 99 *Messerschmidia argentea*
common everywhere
- ✓ 26700 *Triumfetta procumbens*
common in open places
- ✓ 01 *Eleusine indica* (L.) Gaertn.
occasional around
wrecked buildings.
- ✓ 02 *Scaevola frutescens* (Mill.) Kr.
common everywhere
- 03 *Cucurbita pepo*?
persisting from cultivation
- ✓ 04 *Digitaria pruriens* var. *microbachne*
rare, one small patch seen
- ✓ 05 *Sorghum bicolor*
persisting from cultivation
- ✓ 06 *Cyperus ^{javanicus} stoppess*
occasional
- ✓ 07 *Nicotiana tabacum*
occasional, persisting
from cultivation

almost prostrate,
leaves distichous,
pale beneath.
shrub 2.5 m. tall,
leaves fleshy, silvery
green; flowers white.
"kirin" used medicinally, wood for canoes.
prostrate, flowers
yellow.

shrub 3 m. tall (seen
up to 4 or 5 m.); flowers
white, fruit white,
fleshy. "kūnat" used medicinally.
prostrate, extensive;
~~flow~~ leaves with
gray spots; flowers
orange.
"ning" (probably a generic
word for grass)

rather
stagnant

caespitose, leaves gray.

leafy herb 1 m. tall,
fls. pink.

✓ 26708 *Portulaca oleracea*
common in open places

✓ 09 *Ipomoea pes-caprae*
abundant everywhere

✓ 10 *Physalis angulata* L.
occasional

✓ 11 *Pemphis acidula*
common on coral
rock on lagoon side

✓ 12 *Cenchrus echinatus*
common locally

✓ 13 *Thuarea involuta*
local in open places

✓ 14 *Euphorbia thymifolia* ^{prostrata L.}
local around buildings

✓ 15 *Fimbristylis cymosa*
common in open places

✓ 16 *Flemingia strobilifera*
local on open coral rubble

fleshy, prostrate,
flowers yellow, less
than 1 cm. across,
stamens 8-11.

prostrate, extensive,
climbing over old
wreckage; flowers
purple, stamens
white, anthers
straight, stigma
capitate.

herb, much branched,
flower greenish yellow,
fruit immature.
small trees 5 m. tall,
flowers white.

Tufts "lukaluli"

prostrate, forming a
thin mat.

prostrate, purple

Tufts, roots with
pyrethrum-like odor.
"perelej man" roots used medicinally.

stems red, fleshy.
"nen butakut" used for
medicine, eaten by Japanese.

- ✓ 26717 *Euphorbia hirta*
common locally
- ✓ 18 *Pilea microphylla*
local in crevices in
coral rubble
- ✓ 19 *Phyllanthus ^{amarus Schum. & Th.} ~~visneri~~*
local

Aug. 23 Plants collected in Jaber
by R. Lyman

- ✓ 1 *Cordyline terminalis*
large leaved form.
- ✓ 2 *Cordyline terminalis*
narrow leaved with
purple margin
- ✓ 3 *Canna*
yellow flower
with red spots
- ✓ 4 *Cycas circinalis*
- ✓ 5 *Polyscias filicifolia*
- ✓ 6 *Sansevieria guineensis* (Jacq.)
leaves fleshy, gray-mottled
- ✓ 7 *Casuarina equisetifolia*
- ✓ 8 *Leucaena glauca*
- ✓ 9 *Polyscias guilfoylei*
- ✓ 10 *Leindorffia aurea*
vine, leaves variegated
with yellow.

stems arching.

fleshy.

det. G. L.
Webster, 1955

Willd.

Aug. 23 - ^{Imuruj} Omrodj) Islet,
Jaluit Atoll
entirely planted to
coconuts except for a
couple of small mangrove
~~swamps~~ depressions.

✓ 20 Hibiscus tiliaceus L.
lagoon beach in village

✓ 21 Pisonia grandis
in village, rare.

✓ 22 Cassytha filiformis L.
near lagoon beach
in open spaces,
parasitic on grasses

✓ 23 Terminalia littoralis ^{samoensis Rech.}
rare on inner beach

✓ 24 Cordia subcordata
common along inner beach

✓ 25 Calophyllum inophyllum
occasional along inner beach

Musa sapientum = "kebran"
Cocos nucifera (tree) = "ni"
Pandanus = "bof"

"small tree, leaves
very chlorotic "loo" (pronounced
law). fiber used for cordage.

small tree, sterile
"kangal"

leafless, stems
yellow, forming
a carpet on ground
"kanen"

(plant even sends
haustoria into itself -
fruits, other stems, etc.)

small tree with
very young fruit
"ekun"

tree 8 m. tall, others
larger; flower deep orange;
"kono" wood used for
houses, canoes, stakes for
husking coconuts.

tree 8 m. tall, sterile "luej"
wood used for houses and
boats.

- ✓ 26726 *Plumeria rubra* L.
in dooryard
- ✓ 27 *Asclepias curassavica* L.
near house
- ✓ 28 *Celosia argentea* L.
near house
- ✓ 29 *Pseuderanthemum* ^{*canthensis* var.} *atropurpureum*
near house
- ✓ 30 ~~*Plumeria*~~ *Nerium oleander* L.
near house
- ✓ 31 *Centella asiatica*
grassy place under palms.
- ✓ 32 *Premna obtusifolia* R. Br.
rare near houses
- ✓ 33 *Clerodendron inerme*
common locally
- "ulij" used medicinally
- ✓ 34 *Peperomia pinnatifida* DC.
common at north end of
islet on ~~coral~~ broken coral
under coconuts
- ✓ 35 *Ochrosia parviflora* *oppositifolia*
common at north end of
island

- small tree, milky sap
abundant; flowers
white, slightly reddish
outside, yellow toward
center within, fragrant.
flowers with red
corolla, yellow corona.
- erect ~~red~~ reddish herb,
m. tall, fls. rose pink.
- shrub 3 m. tall, leaves
deep purple, buds
deep crimson-purple
"diras" (tea rose??)
- shrub 2 m. tall,
flowers white "oleanda"
prostrate, running.
- "nariko" used medicinally.
sterile shrub 2 m. tall
- "kar" used medicinally.
extensive sprawling shrub,
flowers white, buds
purple tipped, stamens
and style purple.
fleshy "rebijrege"
used medicinally.
- small trees; flowers
white, corolla lobes recurved
"kishpai" seed eaten.

26736 *Barringtonia asiatica*
edge of mangrove depression

37 *Nephrolepis hirsutula* Forst. f.
one clump seen

38 *Bruguiera gymnorhiza*
common around pond
in coral rock - not muddy.

39 *Vigna marina*
common everywhere

40 *Asplenium nidus*
common, especially on
bases of coconuts and stumps

41 *Nephrolepis acutifolia* (Dor.) Christ
common on coconut stumps
and coral rock

42 *Lumnitzera littorea* (Tuck) Vahl
a few trees in a small
depression

43 *Triumfetta procumbens*
common

44 *Leucophanes glauculum*
on bases of coconut trees

Jaluit Atoll

tree 10 m. tall "wop"
used for fish poison.

clump around old
coconut stump. "iri"
small tree; calyx and
hypanthium red.

"chung" or "jung"
vine, extensively
creeping; flowers yellow.
"merkunen jojo"
used medicinally.

rosettes of ascending
fronds. "kartep" young
fronds used medicinally.
fronds erect "iri" (not
distinguished by informant
from 26737).

small tree, leaves rather
thick, glossy, flowers
scarlet, fruit green
"kimeme" wood used for canoes.

prostrate, extensive,
flowers yellow. "atat"
~~the~~ bark fiber used
to weave with Pandanus
and Hibiscus to give a
yellow, brown, or greenish color.
deep light green cushions
"lum en ni"

- ✓ 26745 *Vittaria incurvata*
on tree trunk, not common
- ✓ 46 *Polypodium scolopendrium*^a
~~terrestrial~~, common
- ✓ 47 *Tacca leontopetaloides* L.
planted under coconut
trees in sand.
- ✓ 48 *Ipomoea batatas*
cultivated, one tiny patch seen.
- ✓ 49 *Crinum asiaticum*?
cultivated
- ✓ 50 *Vernonia cinerea*
in village
- ✓ 51 *Pteris tripartita*
in village, one plant seen
- ✓ 52 *Kalanchoe pinnata*
Brzophyllum calycinum
common weed ~~in~~ under
coconuts.
- ✓ 53 *Pipturus argenteus*
common locally
- ✓ 54 *Mirabilis jalapa* L.
around houses
- ✓ 55 *Ocimum sanctum* L.
around houses

- fronds erect from
creeping rhizomes.
- erect herb, scape
1 m. tall "moh moh"
tuber eaten.
- sterile, chlorotic looking
"potato" roots eaten.
- sterile rosettes of
leaves about 1 m. long.
"kief"
- flowers purple.
- rhizome short, erect,
fronds at first 3-divided,
the central division simple,
the lateral ones 3-fid again.
- "iiri"
- sterile; leaves fleshy;
said to have been
brought in by Germans.
- shrub 3 m. tall; fruit
white, fleshy; "arne"
inner bark used to make
fish lines.
- flowers red. "ulij"
- very aromatic herb "katrin"

✓ 76756 *Alocasia macrorhiza*
common everywhere

✓ 57 *Polypodium scolopendrium*
common on coconut stumps

✓ 58 *Artocarpus ^{mariannensis} ~~alticola~~* Tree.
common everywhere

Aug. 24 - same

✓ 59 *Pandanus tectorius*
interior of island

✓ 60 *Ceiba pentandra*
one scrappy tree seen

✓ 61 *Fleurbaeya ruderatis*
common everywhere

✓ 62 *Hymenocallis littoralis*
planted

✓ 63 *Terminalia catappa* L.
one small plant seen

sometimes caulescent,
leaves up to 2 m. tall,
erect. "wot" corm
eaten cooked, though
it burns mouth.

rhizome creeping,
fronds erect "kins"
used medicinally.

low twig on large tree
"me" fruit eaten.
(several varieties known,
including one with seeds,
which are eaten).

tree 5 m. tall, heads
of fruit large, cylindrical
of "bop" var. "shon men"
fruit eaten.

tree 8 m. tall, very
chlorotic. "bulik"
stems ^{and petiole} red, leaves
large in shady places.
"nen küt (ä) küt"

erect, about 1 m. tall,
flowers white, leaves
erect. "kieb" or "kiep"
^{sapling} ~~young~~ 2 m. tall, sterile.
"hotel" seed eaten,
wood used for canoes.

26764 *Carica papaya*
common

65 *Ipomoea* ^{*littoralis*} *gracilis*
locally abundant

66 *Pandanus tectorius*
along outer beach

67 *Adenostemma laevig*
in shade in interior

68 *Hedyotis biflora*
shady ground, local

69 *Caesalpinia pulcherrima* (L.) Sw.
planted in yard

70 *Xanthosoma sagittifolium*
planted

Aug. 24 Mejat to Islet,
~~Korapalga~~ Jaluit Atoll
planted to coconuts
except mangrove
depressions.

erect, unbranched, 2.5
m. tall; flowers cream
white. "kēnapu"

vine, flowers purple;
said to be introduced from Iroquois.
tree 6 m. tall.

"bop" var. "erwan"

"erwan" = tree; maa = leaf

"bis" = fruit.

fruit not eaten, leaves
not used for mats.

flowers white.

"māruko"

prostrate, flowers
white, corolla tube
swollen. "kēluso"

used medicinally.

shrub 1.5 m. tall,

flowers red. "ēmenawa"

acaulescent, sterile,
leaves dull green,
white beneath

"katak"

- ✓ 26771 *Artocarpus altalis*
inner beach, but
mostly in interior
- ✓ 72 *Nepenthes aquifolia*
epiphytic on trees in
mangrove depression
- ✓ 73 *Allophylus timorensis*
common on pebble ridge
around mangrove
depression
- ✓ 74 *Intsia bijuga*
small clump on edge of
mangrove depression
- ✓ 75 *Musa nana*
planted
- ✓ 76 *Pisonia falcata*
in yard
- ✓ 77 *Musa sapientum*
planted
- ✓ 78 *Hernandia sonchifolia* L.
inner beach, rare
- ✓ 79 *Pandanus tectorius*
common

tree 10 m. tall, others
much taller "me"

pendent

tree 5 m. tall, 1 dm. thick,
fls. white, fruit red.

(~~some~~ specimens with
flowers from a small
tree under large one)

tree with smooth bark
10 m. tall, sterile,

~~very~~ very battered
in appearance "kubuk"
fruiting plant 1 m. tall.

shrub 1 m. tall, flowers
orange, without red center.
plant 4 m. tall "kebran"

tree 10 m. tall. "bingbing"
wood used for canoes,
houses, etc.

tree 7 m. tall, fruiting
heads cylindrical, large.
"lof" var "lo arme"
fruit eaten.

26730 *Crinum asiaticum*
planted

✓ 81 *Polyscias tricochleata*
planted

✓ 82 *Pseuderanthemum* ^{carrikeri} ~~elaborado~~
planted, common

✓ 83 ~~Sesuvium~~ *Sophran tomentosa*
rare, ~~common~~

✓ 84 *Hedyotis biflora*
local

✓ 85 *Merium indicum* Mill.
planted

✓ 86 *Polyscias scutellaria*
planted, common

✓ 87 *Polyscias fruticosa*
planted

neck 0.9 m. tall, rosette
of leaves 1-1.5 m. long,
scape 1.5 m. tall, flowers
white with purple
stamens and style "kil'li"
shrub, branches erect,
2 m. tall; variegated;
sterile.

shrub 3 m. tall.
flowers white with
crimson-purple spots
near center, lobes
somewhat reflexed,
one pointing down, 2
just below horizontal,
2 erect, more or less
over-lapping.

large clump of shrubs
2-3 m. tall. "kil'li"

prostrate, flowers
white.

shrub 5 m. tall; flowers
a beautiful rose pink,
fragrant.

erect shrub sterile;
leaves glossy, cochleate.

erect shrub 2.5 m. tall,
flowers bronze green,
fruit gray.

- 76738 *Calophyllum inophyllum*
inner beach, common
- ✓ 89 *Premna obtusifolia* R.Br.
occasional

Fundamentally, at present, the vegetation of the islets of Jaluit Atoll examined (except Jaluit Islet) ~~are~~ is a fairly complete coconut planting, with in its central part, considerable admixture of breadfruit, and a second storey of *Pandanus* scattered commonly through it, more abundantly toward outer beach.

Scaevola and *Messerschmidia* line the outer beach, *Cordia*, *Calophyllum*, etc. the inner.

Alocasia grows commonly in places; *Tacca* is abundant in many extensive localities.

Papayas are common around

Jaluit Atoll

tree 12 m. tall, flowers white with yellow
shrub 4 m. tall.

Pumpkin
vine abundant.

villages and dwellings. Other plants are cultivated on a ~~very~~ small scale in gardens around houses.

Ornamentals, such as *Pseuderanthemum*, various *Polyscias*, *Crinum*, etc. are common along trails, often indicating graves and former house sites.

Hibiscus tiliaceus is occasional but does not seem to do well.

Undergrowth varies from place to place, but *Wedelia* is abundant in many places. Grasses such as *Digitaria*, *Thunarea*, etc. are locally abundant. *Fleurbaeya* and *Bryophyllum* are common,

Timonius is everywhere but *esp.* in wet places. *Triumfetta procumbens* and *Vigna marina* are widespread and abundant. *Polypodium scolopendrium* is everywhere. *Peperomia* is found locally. *Cassytha* covers some areas, especially toward inner beaches. Nowhere except in *Wedelia* patches is undergrowth thick enough to obstruct walking.

Pteris, *Asplenium nidus*, *Nephrolepis* and a *Nephrolepis* like fern are occasional to common, either terrestrial or occasionally epiphytic. Mosses are on ground and on bases of tree trunks.

The islands are narrow enough so that most of the substratum is coral gravel or broken coral. There is little sand or soil.

Here and there are depressions with water and mangroves—mostly *Bruguiera*. These are rock-bottomed

abundant.

and the water is clear. There is seldom mud. Apparently a result of this, ~~the~~ *Pemphix acidula* normally of the rocky reef rock in lagoon beaches, is very common around mangrove depressions.

The water in these depressions is salty but slightly less so than sea water. It is inhabited by small gray to red ~~atypic~~ *Atypis* shrimps similar to those of Puna, Hawaii.

Jaluit Islet has been denuded by military construction and bombardment. It is now covered by a luxuriant growth of *Scaevola*, *Messerschmidia*, *Ipomoea percapitata*, ^{*Wedelia*} *Vigna marina* and a mixture of weeds. ~~It~~ In a few open places *Peperomia* is dominant. Various cultivated species persist

"lubb puny"

especially around wrecked installations.

On the inner beach in one place is an extensive ^{slightly} raised reef-rock flat covered by an almost pure stand of *Pemphis*. *Sonneratia* is rare on a more extreme exposure of this same flat, covered by high tide.

Obviously, as far as simple revegetation goes, all these denuded islands ash is to be let alone. They will revegetate even faster than is wanted.

The *Pandanus* problem is difficult. In my mind, one species is represented, with large phalanges in usually large heads, tending to be cylindric. The details of phalange composition and modelling, as well as edibility

and flavor, vary markedly. Size of head also varies. Length and weaving quality of leaves also varies.

Natives recognize many varieties, giving them names as varieties of "bop" such as

"lo arme"

"joibib"

"lejak rei"

"shon men"

"~~utet~~ utetet"

"dabotin"

"gulub bar"

"erwan" (one form of this ^{inedible})

"un ma" (small

plants, planted for leaves for weaving, plants 1 m. tall, no fruit seen) ~~are~~

These are almost indistinguishable yet the natives recognize them readily. The general appearance is of a randomly varying population, but close study might delimit a finite number of recurring variants.

194

195

Wet. T. 100
high. 100
in range
Columbia
in Wet. T. 100

Wet. T. 100

Bashak =
Cytosperma
common eaten

numu ✓
(annac.)

Tapioca ✓
Japs made them
plant for soldiers
to eat.

Lumnitzera
"waingal"

Xylocarpus
"pulok"

ka = Campnosperma

loa - reed ✓

pāla - Merremia ✓

asingasing - Ipomoea ✓

Mt. Tabeyet

easternmost
high peak
in range
culminating
in Mt. Crozer.

10/14/6

